Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

I. Upper San Joaquin Valley Cotton Farms, 1953–55

Trimble R. Hedges

CALIFORNIA AGRICULTURAL EXPERIMENT STATION
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS
In Cooperation with PRODUCTION ECONOMICS RESEARCH BRANCH
AGRICULTURAL RESEARCH SERVICE, U. S. D. A.

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ACKNOWLEDGEMENTS

This investigation of the impact of the cotton acreage allotment program on farm organization, production, and earnings in the Upper San Joaquin Valley resulted from a cooperative study of the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Production Economics Research Branch, Agricultural Research Service, United States Department of Agriculture.

H. Russell Shaw, Assistant Professor of Agricultural Economics, Assistant Agricultural Economist in the Experiment Station, and on the Giannini Foundation assisted in collecting field data, as did Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation. The latter also assisted in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head Western Field Research Section, and M. L. Upchurch, Head Western Field Research Section, all of the Production Economics Research Branch, participated in outlining and developing the project outline and plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

Finally, the credit for the statistical work goes to the personnel in the Giannini Foundation.

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1. Upper San Joaquin Valley Cotton Farm; 1953-1955 [a]

Trimble R. Hedges [b]

FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Upper San Joaquin Valley. We obtained these data by interviewing farmers and agencies serving farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160- and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resources use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes.

The data for the 80-acre farms will serve to indicate the kind and amount of information that this report includes for each of the three sizes of farms. First appears two tables containing facts about the land resources and the cropping systems that operators on three 80-acre models followed before and after the 1954 and 1955 cotton allotments (Tables 1, 2). Calendars of operations for the various crops occupy the following six tables (Tables 3 through 9). We then present information for the first 80-acre model, the 80-1 unit, including two tables to show use of power and equipment and irrigation water and five to list inputs and costs for a range of crops (Tables 12 through 16). This latter pattern repeats itself for the other two 80-acre models, the 80-2, and 80-3 units (Tables 17 through 21, and 22 through 26). This same listing for the 80-acre farms applies also to the other two sizes, the 160- and 320-acre models. In addition, the last few tables contain price and cost information for the various farm products, and the principal services and materials that farmers buy to use in producing their crops.

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[a] This statistical supplement is a companion report to Hedges, Trimble R., Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 1. The Upper San Joaquin Valley, Giannini Mimeographed Report No. 191, the first of a series based on detailed investigations of the changes in farm organization, production and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3, Production Economics Research Branch, U.S.D.A.

[b] Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis.

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings
Under 1955 Cotton Acreage Allotments)

1. Upper San Joaquin Valley Cotton Farms, 1953-1955 a/

Trimble R. Hedges b/

FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Upper San Joaquin Valley. We obtained these data by interviewing farmers and general farming firms in 1954 and from other sources related to agriculture. The information appears here as sequences of tables concerned with each of three farm sizes: one 160- and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resources use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these times.

The data for the 80-acre farms will serve to indicate the kind and amount of information that this report includes for each of the three sizes of farms. First appears two tables containing facts about the land resources and the cropping systems that operators on three 80-acre models followed before and after the 1954 and 1955 cotton allotments (Tables 1, 2). Tabulated at-operations for the various crops occupy the following six tables (Tables 3 through 8). We then present information for the first 80-acre model, the 80-1 unit, including two tables to show use of power and equipment and irrigation water and five to list inputs and costs for a range of crops (Tables 12 through 18). This latter pattern repeats itself for the other two 80-acre models, the 80-2 and 80-3 units (Tables 17 through 21 and 22 through 26). This same listing for the 80-acre farms applies also to the other two sizes, the 160- and 320-acre models. In addition, the last few tables contain prices and cost information for the various farm products, and the principal services and materials that farmers buy to use in producing their crops.

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a/ This statistical supplement is a companion report to Hedges, Trimble R., Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 1. The Upper San Joaquin Valley, Giannini Mimeographed Report No. 181, the first of a series based on detailed investigations of the changes in farm organization, production and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1041, and is partially supported under Line Project 55.63, Production Economics Research Branch, U.S.D.A.

b/ Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist in the Giannini Foundation, University of California, College of Agriculture, Davis.

Table 1. Crops and Land Use on Typical 80 Acre Farms, 1953-1955; 80-1, Cotton-Alfalfa; 80-2, Cotton-Potato; 80-3, Cotton-Barley, in Upper San Joaquin Valley

Year	Cotton	Alfalfa	Potatoes	Barley	Field corn	Milo	Double crop	Total crop-land	Non culti-vated	Total land
1	2	3	4	5	6	7	8	9	10	11
80-1										
1953	60	17	--	--	--	--	--	77	3	80
1954	40	25	--	12	--	--	--	77	3	80
1955	33	30	--	14	--	14	14	77	3	80
Changes										
1953 to 1954	-20	+ 8	--	+12	--	--	--	--	--	--
1954 to 1955	- 7	+ 5	--	+ 2	--	+14	+14	--	--	--
1953 to 1955	-27	+13	--	+14	--	+14	+14	--	--	--
80-2										
1953	60	--	17	--	--	--	--	77	3	80
1954	40	--	12	--	25	--	--	77	3	80
1955	33	--	15	--	29	--	--	77	3	80
Changes										
1953 to 1954	-20	--	- 5	--	+25	--	--	--	--	--
1954 to 1955	- 7	--	+ 3	--	+ 4	--	--	--	--	--
1953 to 1955	-27	--	- 2	--	+29	--	--	--	--	--
80-3										
1953	60	--	--	17	--	--	--	77	3	80
1954	40	--	--	25	--	12	--	77	3	80
1955	33	--	--	30	--	14	--	77	3	80
Changes										
1953 to 1954	-20	--	--	+ 8	--	+12	--	--	--	--
1954 to 1955	- 7	--	--	+ 5	--	+ 2	--	--	--	--
1953 to 1955	-27	--	--	+13	--	+14	--	--	--	--

Table 1. Crops and land use on Lakeport 80 acre farms, 1951-1955: 80-1, cotton-alfalfa; 80-3, cotton-barley; 80-5, cotton-fallow; 80-7, cotton-potato; 80-9, corn-barley; 80-11, corn-alfalfa; 80-13, corn-potato; 80-15, alfalfa-barley; 80-17, land-total

Year	Cotton	Alfalfa	Potatoes	Barley	Corn silage	Milo	Corn Double crop	Land crop-total	Non crop-land	Total land
	1	2	3	4	5	6	7	8	9	10
80-1										
1951	60	12	—	—	—	—	—	12	8	80
1952	67	12	—	—	—	—	—	12	8	80
1953	56	12	—	12	—	12	12	12	8	80
Changes										
1951 to 1953	-4	+8	—	+12	—	+12	+12	—	—	—
1952 to 1953	-11	+4	—	+12	—	+12	+12	—	—	—
80-3										
1951	60	—	—	12	—	—	—	12	8	80
1952	67	—	—	12	—	—	—	12	8	80
1953	56	—	—	30	—	12	—	12	8	80
Changes										
1951 to 1953	-4	—	—	+18	—	+12	—	—	—	—
1952 to 1953	-11	—	—	+18	—	+12	—	—	—	—
80-5										
1951	60	—	12	—	60	—	—	12	8	80
1952	67	—	12	—	52	—	—	12	8	80
1953	56	—	12	—	—	—	—	12	8	80
Changes										
1951 to 1953	-4	—	—	—	+60	—	—	—	—	—
1952 to 1953	-11	—	—	—	+52	—	—	—	—	—
80-7										
1951	60	18	—	18	—	18	18	12	8	80
1952	67	18	—	18	—	—	—	12	8	80
1953	56	18	—	—	—	—	—	12	8	80
Changes										
1951 to 1953	-4	+6	—	+18	—	+18	+18	—	—	—
1952 to 1953	-11	+6	—	+18	—	+18	+18	—	—	—
80-9										
1951	60	12	—	—	12	—	—	12	8	80
1952	67	12	—	—	12	—	—	12	8	80
1953	56	12	—	—	12	—	—	12	8	80
Changes										
1951 to 1953	-4	+6	—	—	+12	—	—	—	—	—
1952 to 1953	-11	+6	—	—	+12	—	—	—	—	—
80-11										
1951	60	—	—	—	—	—	—	—	—	—
1952	67	—	—	—	—	—	—	—	—	—
1953	56	—	—	—	—	—	—	—	—	—
Changes										
1951 to 1953	-4	—	—	—	—	—	—	—	—	—
1952 to 1953	-11	—	—	—	—	—	—	—	—	—

Table 2. Physical Resources and Investments for Typical 80-Acre Farms (80-1, 80-2, 80-3) in Upper San Joaquin Valley, 1955 Prices a/

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Land:						
Total farm	80 acres					
Cultivated land	77 acres					
Improvements:						
Shop, storage		1		$1250.00		$ 625.00
Tractor & equipment shed		1		500.00		250.00
Fuel storage - gas	350 gal.	1		110.00		55.00
Fuel storage - gas	550 gal.	1		135.00		67.50
Subtotal				1995.00		997.50
Irrigation facilities:						
Pumping plant (50 HP)	900 gpm	1		4900.00		2510.00
Well, casing (200' lift)	12" diam.	400'	6.50	2600.00		1300.00
Subtotal				7500.00		3810.00
Distribution system:						
Pipe	14"	3960'	.90	3564.00	.45	1782.00
Stands	5'x36"	1	9.00	45.00	4.50	22.50
Valves, alfalfa	10"	36	15.00	540.00	7.50	270.00
Vents	5'x6"	3	.75	11.25	.38	5.63
Row pipe	2"	300	1.50	450.00	.75	225.00
Siphons	1 1/2"	100	1.27	127.00	.64	63.50
Subtotal				4737.25		2368.63
Power:						
Wheel tractors	W-1	1		2600.00		1820.00
	W-2	1		3000.00		2100.00
Subtotal				5600.00		3920.00
Transportation:						
Pickup	1/2 ton	1		2000.00		1200.00
Equipment:						
Ditcher	4'	1		135.00		67.50
Chisel	8'	1		525.00		262.50
Disk-offset	6'9"	1		525.00		262.50
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	2 row	1		350.00		175.00
Cultivator	2 row	1		350.00		175.00
Cotton trailer	5 bale	4	400.00	1600.00	220.00	880.00

(Continued on next page.)

[illegible]

Table 2 continued

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Additional equipment:						
80-1 only						
Power mower	7'	1		$ 350.00		$ 175.00
Side delivery rake	8'	1		520.00		260.00
80-2 only						
Potato planter	2 row	1		700.00		350.00
Steel roller	6'	1		200.00		100.00
Plow, 2 way	2-16"	1		550.00		275.00
Equipment 80-1				4,770.00		2,465.00
Equipment 80-2				5,350.00		2,755.00
Equipment 80-3				3,900.00		2,030.00
Total 80-1 b/				$26,602.25		$14,761.13
Total 80-2 b/				$27,182.25		$15,051.13
Total 80-3 b/				$25,732.25		$14,326.13

a/ The designations 80-1, 80-2, 80-3 refer to three variations found in the 80 acre size group.

b/ Excluding land values.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Light vehicl equipment:					
60-1 only:					
[illegible]					
Size delivery vehic					[illegible]
60-2 only:					
[illegible]			[illegible]		[illegible]
Gasol [illegible]			[illegible]		[illegible]
Fuel, 2 [illegible]			[illegible]		[illegible]
Inventory 60-1			4,715.00		[illegible]
Inventory 60-2			5,320.00		[illegible]
[illegible]			3,500.00		4,500.00
[illegible]			345,692.15		214,761.13
[illegible]			47,452.45		115,052.13
[illegible]			[illegible]		[illegible]

a/ The designations 60-1, 60-2, 60-3 refer to three vehicles found in the 60 acre site group.

b/ Excluding land values.

Table 3. Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Irrigation	1						5.6 ac. in.
4/5 - 4/15	Cut (1st)*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D.rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
5/5 - 5/15	Cut (2nd)*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D.rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
6/5 - 6/15	Cut (3rd)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
7/5 - 7/15	Cut (4th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
8/5 - 8/15	Cut (5th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
9/5 - 9/15	Cut (6th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
10/5 - 10/15	Cut (7th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X							4 ac. in.

* No cutting for first year of stand

Table 4. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
2/1 - 3/15	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make Borders - contract							
	Landplane - contract							
	Disk	1	W-2	6'9" offset disk	22	.41	.41	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-2	6'9" offset w/8'spike	20	.45	.45	
	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
	Dust - contract							12.5# 2% parathion

Table [illegible] — Adjusted [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Item	Description	Quantity	Given item designation	Size	Weight	Unit price	Extended price
	Item 2A	1	W-2	6"	.02	[illegible]	
	Saint 2A - [illegible]						
	Land/Lane 2A - [illegible]						
	Tube 5 [illegible] - [illegible]						
	Bandplane - [illegible]						
	Disk	1	W-2	6"	.02	[illegible]	
	Pre-[illegible]	1					
	Disk with Barrow	1	W-2	6"	.02	[illegible]	
	Saw	1	W-1	Procedure (varied)	[illegible]	[illegible]	[illegible]
	Barrow		W-1	12" spokeshaft Barrow	[illegible]	[illegible]	[illegible]
	Tube - [illegible]						

Table 5. Calendar of Operations & Physical Inputs Per Acre Producing Barley on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (harrow on 2nd time)	1	W-2	6'9" offset w/8' Spike harrow	20	.90	.90	
12/20 - 1/20	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	80# seed
12/20 - 1/20	Harrow	1	W-1	12' harrow-spike	40	.22	.22	
12/22 - 1/22	Border up	1	W-2	Border disk (rented)	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						14.4 ac. in.
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							

Table 6. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Furrow out	1	W-1	2 row lister planter	18	.50	.50	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.20	.20	
3/20 - 4/15	Plant	2	W-2	2 row lister planter	16	1.12	.56	10# seed
	Cultivate	1	W-1	2 row cultivator	10	.90	.90	
	Irrigate	1						4 ac. in.
	Cultivate	1	W-1	2 row cultivator	12	.75	.75	
	Fertilize - contract							120# NH_3 (84%)
	Irrigate 2X	1						8 ac. in.
	Cultivate	1	W-2	2 row cultivator	12	.75	.75	
	Irrigate 6X	1						24 ac. in.
9/20 - 11/15	Pick & haul - contract							
	Shell - contract							

* occurs 4 X - man-hours and tractor-hours are total for season

Table 5. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 80 Acre Farms.

Table 7. Calendar of Operations and Physical Inputs Per Acre for Producing Cotton on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	Cut stalks	1	W-2	2 row stalk cutter (rent)	18	.50	.50		
	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82		
	Chisel 2X	1	W-2	8' chisel	12	1.50	1.50		
	Disk	1	W-2	6'9" offset disk	22	.41	.41		
	Furrow out	1	W-2	2 row lister planter	18	.50	.50		
	Make head ditches*	1	W-2	4' ditcher		.30	.30		
	Preirrigate							6 ac.in.	6 ac.in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.30	.30		
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22		
4/1 - 4/15	Plant	2	W-2	2 row lister planter	16	1.12	.56	18# acid delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
4/25 - 5/5	Cultivate (1)	1	W-1	2 row cultivator	10	.90	.90		
	Hand thin - contract								
	Cultivate (2)	1	W-1	2 row cultivator	12	.75	.75		
	Fertilize - contract							115# NH_3	130# NH_3
	Cultivate (3)	1	W-1	2 row cultivator	12	.75	.75		
5/20 - 6/10	Irrigate (1)	1						4 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-1	2 row cultivator	14	.64	.64		
	Irrigate (2)	1						4 ac.in.	4 ac.in.
	Cultivate (5)	1	W-1	2 row cultivator	14	.64	.64		
	Dust 2X - contract							60# 5% DDT 50% S	
	Irrigate (3)	1						4 ac.in.	5 ac.in.
	Cultivate (6)	1	W-1	2 row cultivator	14	.64	.64		
	Irrigate (4)	1						5 ac.in.	5 ac.in.
8/1 - 8/5	Cultivate and lay by (7)	1	W-1	2 row cultivator	14	.64	.64		
8/1 - 9/10	Irrigate 4 X (5-8)	1						16ac.in.	18 ac.in.
9/5 - 9/15	Defoliate - contract							10# $NaClO_3$ w/Borate or Mg.	
9/15 - on	Pick 1st machine - contract								
9/15 - on	Pick 2nd machine - contract								
9/15 - on	Haul to gin	1	Pick-up	5 bale cotton trailer	6	1.50	1.50		

* occurs 6X - man-hours and tractor-hours are total for season

Table 8. Calendar of Operations & Physical Inputs Per Acre for Producing Milo on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	W-2	6'9" Offset disk	22	.82	.82	
	Furrow out	1	W-1	2 row lister planter	18	.50	.50	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.20	.20	
	Disk w/cultipacker attached	1	W-2	6'9" offset w/10' cultipacker	20	.45	.45	
6/15 - 7/15	Plant	2	W-2	2 row lister planter	16	1.12	.56	10# seed
	Irrigate	1						5 ac. in.
	Cultivate	1	W-1	2 row cultivator	10	.90	.90	
	Cultivate	1	W-1	2 row cultivator	12	.75	.75	
	Irrigate	1						4 ac. in.
7/15 - 8/15	Cultivate	1	W-1	2 row cultivator	12	.75	.75	
7/25 - 9/5	Irrigate 3X	1						12 ac. in.
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

* occurs 4X - man-hours and tractor-hours are total for season

Table 9. Calendar of Operations and Physical Inputs Per Acre for Producing Potatoes on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Plow	1	W-2	2 w/2-16"	10	.90	.90	
	Disk w/harrow	1	W-2	6'9" offset w/8' spiketooth	20	.45	.45	
1/5 - 2/5	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	16 cwt seed 800# 17-7-0
	Harrow beds	1	W-1	12' spiketooth	40	.22	.22	
	Cultivate & Furrow out	1	W-1	2 row cultivator	10	.90	.90	
	Make head ditches*	1	W-2	4' ditcher		.10	.10	
2/20 - 2/30	Irrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.10	.10	
	Cultivate & Furrow out	1	W-1	2 row cultivator	12	.75	.75	
3/20 - 6/1	Irrigate continuous	1						30 ac. in.
5/5 - 6/5	Dust 1X - contract							30# of 5% DDT 50% S
	Roll	1	W-1	6' steel roller	30	.30	.30	
	Rotobeat - contract							
5/20 - 6/20	Dig - contract							
5/20 - 6/20	Pick - contract							
	Haul - contract							

* occurs 2X - man-hours and tractor-hours are total for season

Table 10. Annual Tractor and Equipment Hours, 1955 and 1953; 80-1 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa			Barley		Milo		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	per acre	1955 total (30 acres)	1953 total (17 acres)	per acre	1955 total (14 acres)	per acre	1955 total (14 acres)	1955	1953
W-1	5.45	179.85	327.00	4.31	129.30	73.27	.44	6.16	2.90	40.60	355.91	400.27
W-2	4.89	161.37	293.40	.42	12.60	7.14	1.12	15.68	2.23	31.22	220.87	300.54
Pickup											10,000	miles
4' ditcher	.30	9.90	18.00						.20	2.80	12.70	18.00
8' chisel	1.50	49.50	90.00								49.50	90.00
6'9" offset disk	1.23	40.59	73.80	.42	12.60	7.14	.90	12.60	1.27	17.78	96.27	80.94
8' spiketooth harrow				.11	3.30	1.87	.90	12.60				
12' spiketooth harrow	.22	7.26	13.20	.05	1.50	.85					19.36a/	15.30a/
10' cultipacker	.27	8.91	16.20						.45	6.30	15.21	16.20
2 row lister planter	1.06	34.98	63.60						1.06	14.84	49.82	63.60
2 row cultivator	4.96	163.68	297.60						2.40	33.60	197.28	297.60
Cotton trailer 5 bale	1.50	49.50	90.00								49.50	90.00
7' power mower				2.17	65.10	36.89					65.10	36.89
8' side delivery rake				2.03	60.90	34.51					60.90	34.51

a/ Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus all 12' spiketooth harrow hours.

Table 11. Irrigation Water Use, 1955 and 1953; for 80-1 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	
1955	(33 acres)		(30 acres)		(14 acres)		(14 acres)		
1/1 - 4/30	6.0	198	13.6	408	14.4	201.6	-	-	807.6
5/1 - 6/30	8.0	264	16.0	480	-	-	6.0	84	828
7/1 - 8/31	23.5	775.5	16.0	480	-	-	17.0	238	1493.5
9/1 - 12/31	4.5	148.5	12.0	360	-	-	4.0	56	564.5
Seasonal per acre	42.00	-	57.60	-	14.40	-	27.00	-	-
Seasonal per farm	-	1386	-	1728	-	201.6	-	378	3693.6
1953	(60 acres		(17 acres)		(--------)		(--------)		
1/1 - 4/30	6.0	360	13.6	231.2	-	-	-	-	591.2
5/1 - 6/30	8.0	480	16.0	272.0	-	-	-	-	752.0
7/1 - 8/31	21.0	1260	16.0	272.0	-	-	-	-	1532.0
9/1 - 12/31	4.0	240	12.0	204.0	-	-	-	-	444.0
Seasonal per acre	39.00	-	57.60	-	-	-	-	-	-
Seasonal per farm	-	2340	-	979.2	-	-	-	-	3319.2

Table 12. Inputs and Costs for Producing Alfalfa on 80-1

1955 Yield: 6.25 Tons 1953 Yield: 6.25 Tons

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 30 acres	Total Cost 1953 17 acres
Overhead:							
Real estate taxes	-	-	-	6.50	6.50	201.50a/	117.00a/
Office	-	-	-	1.95	1.95	58.44a/	33.12a/
Improvements	-	-	-	2.17	2.17	64.95a/	36.82a/
Power	-	-	-	7.69	6.89	230.70	117.13
Equipment	-	-	-	3.68	6.48	110.40	110.16
Irrigation water	-	-	-	14.28	15.90	428.40	270.30
1/4 cost to establish stand	-	-	-	10.31	10.30	309.22	175.14
Total overhead				46.58	50.19	1403.61	859.67
Operating:							
Power:							
Tractor W-1	.502	.522	4.20 Hr.	2.11	2.19	63.30	37.23
Pickup 1955	.035	-	81.0 Mi.	2.84	-	85.20	-
1953	-	.035	73.0 Mi.	-	2.56	-	43.52
Equipment:							
7' power mower	.538	.948	2.17 Hr.	1.17	2.06	35.10	35.02
8' S. D. rake	.853	1.507	2.03 Hr.	1.73	3.06	51.90	52.02
Materials:							
Irrigation water	.427	.455	57.6 ac."	24.60	26.21	738.00	445.57
Labor:							
Drivers 1955	1.00	-	6.20 Hr.	6.20	-	186.00	-
1953	-	1.00	6.02 Hr.	-	6.02	-	102.34
Irrigator	.90	.90	28.80 Hr.	25.92	25.92	777.60	440.64
Soc. Sec. & Comp. Insur.	-	-	-	1.86	1.85	55.80	31.45
Contracts:							
Bale	3.50	3.50	6.25 ton	21.88	21.88	656.40	371.96
Roadside	1.75	1.75	6.25 ton	10.94	10.94	328.20	185.98
Total operating	-	-	-	99.25	102.69	2977.50	1745.73
Total Cost	-	-	-	145.83	152.88	4381.11	2605.40

a/ Total does not equal amount per acres multiplied by acres due to adjustment for noncrop acres.

Table 13. Cost of Inputs to Establish an Alfalfa Stand on 80-1

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 30 acres	Total Cost 1953 17 acres
Power:							
Tractor W-1	1.505	1.414	.44 Hr.	.66	.62	19.80	10.54
Tractor W-2	2.980	2.397	1.68 Hr.	5.01	4.03	150.30	68.51
Equipment:							
6'9" offset disk	1.508	1.794	1.68 Hr.	2.53	3.01	75.90	51.17
8' spiketooth	.351	.445	.45 Hr.	.16	.20	4.80	3.40
12' spiketooth	.527	.667	.22 Hr.	.12	.15	3.60	2.55
Broadcaster (rent)	.25	.25	.22 Hr.	.06	.06	1.80	1.02
Materials:							
Irrigation water	.675	.731	8.0 ac."	5.40	5.85	162.00	99.45
Seed	.34	.34	25 lbs.	.85	.85	25.50	14.45
Labor:							
Drivers	1.00	1.00	2.12 Hr.	2.12	2.12	63.60	36.04
Irrigator	.90	.90	4.00 Hr.	3.60	3.60	108.00	61.20
Soc. Sec. & Comp. Insur.	-	-	-	.33	.33	9.90	5.61
Contracts:							
Chisel 2X	-	-	-	5.50	5.50	165.00	93.50
Landplane 3X	-	-	-	12.00	12.00	360.00	204.00
Make borders	-	-	-	.75	.75	22.50	12.75
Dust (2% parathion)	-	-	12.5 lbs.	2.14	2.14	64.20	36.38
Total Cost	-	-	-	41.23	41.21	1236.90	700.57
Amount charged off annually a/				10.31	10.30	309.22	175.14

a/ Total cost to establish stand is depreciated over four years.

Table 14. Inputs and Costs for Producing Barley on 80-1

1955 Yield: 25 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 14 acres	Total Cost 1953 acres
Overhead:							
Real estate taxes	-	-	-	3.25b/	-	48.75a/	-
Office	-	-	-	.97b/	-	13.64a/	-
Improvements	-	-	-	1.08b/	-	15.16a/	-
Power	-	-	-	2.56	-	35.84	-
Equipment	-	-	-	.98	-	13.72	-
Irrigation water	-	-	-	3.57	-	49.98	-
Total overhead				12.41		177.09	
Operating:							
Power:							
Tractor W-1	.502	-	.44 Hr.	.22	-	3.08	-
Tractor W-2	1.115	-	1.12 Hr.	1.25	-	17.50	-
Pickup	.035	-	81.0 Mi.	2.84	-	39.76	-
Equipment:							
6'9" offset disk	.818	-	.90 Hr.	.74	-	10.36	-
8' spiketooth	.062	-	.90 Hr.	.06	-	.84	-
12' spiketooth	.093	-	.22 Hr.	.02	-	.28	-
Border disk (rent)	.50	-	.22 Hr.	.11	-	1.54	-
Broadcaster (rent)	.25	-	.22 Hr.	.06	-	.84	-
Materials:							
Irrigation water	.427	-	14.4 ac."	6.15	-	86.10	-
Seed	.04	-	80 lbs	3.20	-	44.80	-
Labor:							
Drivers	1.00	-	3.56 Hr.	3.56	-	49.84	-
Irrigator	.90	-	7.20 Hr.	6.48	-	90.72	-
Soc. Sec. & Comp. Insur.	-	-	-	.58	-	8.12	-
Contracts:							
Harvest	-	-	-	5.00	-	70.00	-
Haul	.10	-	25 cwt	2.50	-	35.00	-
Storage	.144	-	25 cwt	3.60	-	50.40	-
Insurance ($1.50 per $100 of value)		-	-	.81	-	11.34	-
Interest on operating capital	-	-	-	.71	-	9.91	-
Total operating	-	-	-	37.89	-	530.43	-
Total cost	-	-	-	50.30	-	707.52	-

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

Table 15. Inputs and Costs for Producing Cotton on 80-1

1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost Per Acre 1955	Cost Per Acre 1953	Total Cost 1955 33 acres	Total Cost 1953 60 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	221.00a/	403.00a/
Office				1.95	1.95	64.28a/	116.88a/
Improvements				2.17	2.17	71.45a/	129.90a/
Power				21.51	17.84	709.83	1,070.40
Equipment				16.30	10.28	537.90	616.80
Irrigation water				10.42	10.76	343.86	645.60
Total overhead				58.85	49.50	1948.32	2,982.58
Operating:							
Power:							
Tractor W-1	.502	.522	5.45 hr	2.74	2.84	90.42	170.40
Tractor W-2	1.115	1.026	4.89 hr	5.45	5.02	179.85	301.20
Pickup 1955	.035		161.0 mi	5.64		186.12	
1953		.035	146.0 mi		5.11		306.60
Equipment:							
4' ditcher	.319	.225	.30 hr	.10	.07	3.30	4.20
8' chisel	1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk	.818	.973	1.23 hr	1.01	1.20	33.33	72.00
12' spiketooth	.093	.118	.22 hr	.02	.03	.66	1.80
10' cultipacker	2.137	2.006	.27 hr	.58	.54	19.14	32.40
2 row lister planter	.702	.550	1.06 hr	.74	.58	24.42	34.80
2 row cultivator	.355	.235	4.96 hr	1.76	1.17	58.08	70.20
5 bale cotton trailer	.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)	.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)	1.00	1.00	.50 hr	.50	.50	16.50	30.00
Materials:							
Irrigation water 1955	.427		42.0 ac"	17.93		591.69	
1953		.455	39.0 ac"		17.74		1,064.40
Seed (acid delint)	.115	.115	18.0 lbs	2.07	2.07	68.31	124.20
Labor:							
Drivers 1955	1.00		15.59 hr	15.59		514.47	
1953		1.00	15.29 hr		15.29		917.40
Irrigator 1955	.90		21.0 hr	18.90		623.70	
1953		.90	19.5 hr		17.55		1,053.00
General	.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.				2.03	1.93	66.99	115.80

(Continued on next page.)

Table 15 continued.

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost Per Acre 1955	Cost Per Acre 1953	Total Cost 1955 33 acres	Total Cost 1953 60 acres
1	2	3	4	5	6	7	8
Contracts:							
Fertilize (NH_3) 1955			130 lbs	15.40		508.20	
(NH_3) 1953			115 lbs		13.58		814.80
Dust 2X (5% DDT - 50% sulfur)			60 lbs	8.10	8.10	267.30	486.00
Hand thin				5.00	5.00	165.00	300.00
Hand weed				5.00	5.00	165.00	300.00
Defoliate ($NaClO_3$ w/Borate or Mg.)			10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine 1955	24.50		2.5 bale	61.25		2021.25	
1953		24.50	2.1 bale		51.45		3,087.00
Gin 1955	14.70		2.5 bale	36.75		1212.75	
1953		14.70	2.1 bale		30.87		1,852.20
Insur. & storage 1955	1.19		2.5 bale	2.98		98.34	
1953		1.19	2.1 bale		2.50		150.00
Interest on operating capital				2.78	2.60	91.84	155.76
Total operating				220.27	197.31	7269.01	11,838.36
Total cost				279.12	246.81	9217.33	14,820.94

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 16. Inputs and Costs for Producing Milo on 80-1

1955 Yield: 30 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 14 acres	Total Cost 1953 acres
Overhead:							
Real estate taxes	-	-	-	3.25b/	-	48.75a/	-
Office	-	-	-	.97b/	-	13.64a/	-
Improvements	-	-	-	1.08b/	-	15.16a/	-
Power	-	-	-	10.55	-	147.70	-
Equipment	-	-	-	3.85	-	53.90	-
Irrigation water	-	-	-	6.70	-	93.80	-
Total overhead	-	-	-	26.40	-	372.95	-
Operating:							
Power:							
Tractor W-1	.502	-	2.90 Hr.	1.46	-	20.44	-
Tractor W-2	1.115	-	2.23 Hr.	2.49	-	34.86	-
Pickup	.035	-	81.0 Mi.	2.84	-	39.76	-
Equipment:							
4' ditcher	.319	-	.20 Hr.	.06	-	.84	-
6'9" offset disk	.818	-	1.27 Hr.	1.04	-	14.56	-
10' cultipacker	2.137	-	.45 Hr.	.96	-	13.44	-
2 row lister planter	.702	-	1.06 Hr.	.74	-	10.36	-
2 row cultivator	.355	-	2.40 Hr.	.85	-	11.90	-
4' scraper (rent)	.50	-	.20 Hr.	.10	-	1.40	-
Materials:							
Irrigation water	.427	-	27.0 ac."	11.53	-	161.42	-
Seed	.08	-	10 lbs	.80	-	11.20	-
Labor:							
Drivers	1.00	-	7.13 Hr.	7.13	-	99.82	-
Irrigator	.90	-	13.50 Hr.	12.15	-	170.10	-
General	.90	-	.56 Hr.	.50	-	7.00	-
Soc. Sec. & Comp. Insur.	-	-	-	1.15	-	16.06	-
Contracts:							
Harvest	-	-	-	6.00	-	84.00	-
Haul	.10	-	30 cwt	3.00	-	42.00	-
Storage	.144	-	30 cwt	4.32	-	60.48	-
Insurance ($1.50 per $100 of value)	-	-	-	1.04	-	14.56	-
Interest on operating capital	-	-	-	1.40	-	19.64	-
Total operating	-	-	-	59.56	-	833.84	-
Total cost	-	-	-	85.96	-	1206.79	-

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

Table 17. Annual Tractor and Equipment Hours, 1955 and 1953; 80-2 Farms in Upper San Joaquin Valley

Item	Cotton			Potatoes			Corn		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	acre	1955 total (15 acres)	1953 total (17 acres)	acre	1955 total (29 acres)	1955	1953
W-1	5.45	179.85	327.00	2.17	32.55	36.89	2.90	84.10	296.50	363.89
W-2	4.89	161.37	293.40	3.65	54.75	62.05	2.68	77.72	293.84	355.45
Pickup									10,000 miles	
4' ditcher	.30	9.90	18.00	.10	1.50	1.70	.20	5.80	17.20	19.70
2 w/2-16" plow				.90	13.50	15.30	.90	26.10	39.60	15.30
8' chisel	1.50	49.50	90.00						49.50	90.00
6'9" offset disk	1.23	40.59	73.80	1.27	19.05	21.59	.82	23.75	83.42	95.39
8' spiketooth harrow				.45	6.75	7.65				
12' spiketooth harrow	.22	7.26	13.20	.22	3.30	3.74			15.06a/	22.04a/
10' cultipacker	.27	8.91	16.20						8.91	16.20
2 row lister planter	1.06	34.98	63.60				1.06	30.74	65.72	63.60
2 row cultivator	4.96	163.68	297.60	1.65	24.75	28.05	2.40	69.60	258.03	325.65
cotton trailer-5 bale	1.50	49.50	90.00						49.50	90.00
2 row potato planter				1.28	19.20	21.76			19.20	21.76
6' steel roller				.30	4.50	5.10			4.50	5.10

a/ Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus 12' spiketooth harrow hours.

Table 18. Irrigation Water Use, 1955 and 1953, For 80-2 Farms in Upper San Joaquin Valley

Year and period	Cotton		Potatoes		Corn		All crop total
	per acre	total	per acre	total	per acre	total	
1955	(33 acres)		(15 acres)		(29 acres)		
1/1 - 4/30	6.0	198	22.0	330	6.0	174	702
5/1 - 6/30	8.0	264	14.0	210	12.0	348	822
7/1 - 8/31	23.5	775.5	-	-	24.0	696	1471.5
9/1 - 12/31	4.5	148.5	-	-	-	-	148.5
Seasonal per acre	42.00	-	36.00	-	42.00	-	-
Seasonal per farm	-	1386	-	540	-	1218	3144
1953	(60 acres)		(17 acres)		(---------)		
1/1 - 4/30	6.0	360	22.0	374	-	-	734
5/1 - 6/30	8.0	480	14.0	238	-	-	718
7/1 - 8/31	21.0	1260	-	-	-	-	1260
9/1 - 12/31	4.0	240	-	-	-	-	240
Seasonal per acre	39.00	-	36.00	-	-	-	-
Seasonal per farm	-	2340	-	612	-	-	2952

Table 19. Inputs and Costs for Producing Field Corn on 80-2

1955 Yield: 50 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 29 acres	Total Cost 1953 acres
Overhead:							
Real estate taxes	-	-	-	6.50	-	195.00a/	-
Office	-	-	-	1.95	-	56.50a/	-
Improvements	-	-	-	2.17	-	62.79a/	-
Power	-	-	-	11.16	-	323.64	-
Equipment	-	-	-	3.55	-	102.95	-
Irrigation water	-	-	-	12.26	-	355.54	-
Total overhead	-	-	-	37.59	-	1096.42	-
Operating:							
Power:							
Tractor W-1	.603	-	2.90 Hr.	1.75	-	50.75	-
Tractor W-2	.838	-	2.68 Hr.	2.25	-	65.25	-
Pickup	.035	-	91.0 Mi.	3.18	-	92.22	-
Equipment:							
4' ditcher	.235	-	.20 Hr.	.05	-	1.45	-
2 way/2-16" plow	2.084	-	.90 Hr.	1.88	-	54.52	-
6'9" offset disk	.944	-	.82 Hr.	.77	-	22.33	-
2 row lister planter	.533	-	1.06 Hr.	.56	-	16.24	-
2 row cultivator	.271	-	2.40 Hr.	.65	-	18.85	-
4' scraper (rent)	.50	-	.20 Hr.	.10	-	2.90	-
Materials:							
Irrigation water	.468	-	42.0 ac."	19.66	-	570.14	-
Seed	.26	-	10 lbs	2.60	-	75.40	-
Labor:							
Drivers	1.00	-	7.85 Hr.	7.85	-	227.65	-
Irrigator	.90	-	21.00 Hr.	18.90	-	548.10	-
General	.90	-	.56 Hr.	.50	-	14.50	-
Soc. Sec. & Comp. Insur.	-	-	-	1.58	-	45.82	-
Contracts:							
Fertilizer (NH_3)	-	-	120 lbs	14.35	-	416.15	-
Pick	-	-	-	10.00	-	290.00	-
Shell	.125	-	50 cwt	6.25	-	181.25	-
Haul	.10	-	50 cwt	5.00	-	145.00	-
Dry	.175	-	50 cwt	8.75	-	253.75	-
Storage	.144	-	50 cwt	7.20	-	208.80	-
Insurance ($1.50 per $100.00 of value)	-	-	50 cwt	2.03	-	58.73	-
Interest on operating capital	-	-	-	2.90	-	83.98	-
Total operating	-	-	-	118.76	-	3443.78	-
Total Cost	-	-	-	156.35	-	4540.20	-

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 20. Inputs and Costs for Producing Cotton on 80-2
1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 33 acres	Total Cost 1953 60 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	221.00a/	403.00a/
Office					1.95	1.95	64.28a/	116.88a/
Improvements					2.17	2.17	71.45a/	129.90a/
Power					21.25	17.30	701.25	1,038.00
Equipment					16.37	9.99	540.21	599.40
Irrigation water					12.26	12.13	404.58	727.80
Total overhead					60.50	50.04	2002.77	3,014.98
Operating:								
Power:								
Tractor W-1		.603	.620	5.45 hr	3.29	3.38	108.57	202.80
Tractor W-2		.838	.867	4.89 hr	4.10	4.24	135.30	254.40
Pickup	1955	.035		182.0 mi	6.37		210.21	
	1953		.035	146.0 mi		5.11		306.60
Equipment:								
4' ditcher		.235	.205	.30 hr	.07	.06	2.31	3.60
8' chisel		1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk		.944	.825	1.23 h4	1.16	1.01	38.28	60.60
12' spiketooth		.120	.082	.22 hr	.03	.02	.99	1.20
10' cultipacker		3.646	2.006	.27 hr	.98	.54	32.34	32.40
2 row lister planter		.533	.550	1.06 hr	.56	.58	18.48	34.80
2 row cultivator		.271	.215	4.96 hr	1.34	1.07	44.22	64.20
5 bale cotton trailer		.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)		.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)		1.00	1.00	.50 hr	.50	.50	16.50	30.00
Materials:								
Irrigation water	1955	.468		42.0 ac"	19.66		648.78	
	1953		.481	39.0 ac"		18.76		1,125.60
Seed (acid delint)		.115	.115	18 lbs	2.07	2.07	68.31	124.20
Labor:								
Drivers	1955	1.00		15.59 hr	16.14		532.62	
	1953		1.00	15.29 hr		15.29		917.40
Irrigator	1955	.90		21.00 hr	18.90		623.70	
	1953		.90	19.50 hr		17.55		1,053.00
General		.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.					2.06	1.93	67.98	115.80
Contracts:								
Fertilize (NH_3)	1955			130 lbs	15.40		508.20	
(NH_3)	1953			115 lbs		13.58		814.80
Dust 2X(5%DDT-50% sulfur)				60 lbs	8.10	8.10	267.30	486.00
Hand thin					5.00	5.00	165.00	300.00
Hand weed					5.00	5.00	165.00	300.00
Defoliate ($NaClO_3$ w/Borate or Mg)				10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine	1955	24.50		2.5 bale	61.25		2021.25	
	1953		24.50	2.1 bale		51.45		3,087.00
Gin	1955	14.70		2.5 bale	36.75		1212.75	
	1953		14.70	2.1 bale		30.87		1,852.20
Insur. & storage	1955	1.19		2.5 bale	2.98		98.34	
	1953		1.19	2.1 bale		2.50		150.00
Interest on operating capital					2.83	2.61	93.31	156.54
Total operating					222.49	197.79	7342.09	11,867.34
Total cost					282.99	247.83	9344.86	14,882.32

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 21. Inputs and Costs for Producing Potatoes on 80-2

1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 15 acres	Total Cost 1953 17 acres
Overhead:							
Real estate taxes				6.50	6.50	104.00a/	117.00a/
Office				1.95	1.95	29.22a/	33.12a/
Improvements				2.17	2.17	32.48a/	36.82a/
Power				11.64	9.50	174.60	161.50
Equipment				8.86	10.42	132.90	177.14
Irrigation water				10.51	11.20	157.65	190.40
Total overhead				41.63	41.74	630.85	715.98
Operating:							
Power:							
Tractor W-1	.603	.620	2.17 Hr.	1.31	1.34	19.65	22.78
Tractor W-2	.838	.867	3.65 Hr.	3.06	3.16	45.90	53.72
Pickup 1955	.035		91.00 Mi.	3.18		47.70	
1953		.035	73.00 Mi.		2.56		43.52
Equipment:							
4' ditcher	.235	.205	.10 Hr.	.02	.02	.30	.34
2 way/2-16" plow	2.084	5.392	.90 Hr.	1.88	4.85	28.20	82.45
6'9" offset disk	.944	.825	1.27 Hr.	1.20	1.05	18.00	17.85
8' spiketooth	.080	.055	.45 Hr.	.04	.02	.60	.34
12' spiketooth	.120	.082	.22 Hr.	.03	.02	.45	.34
2 row cultivator	.271	.215	1.65 Hr.	.45	.35	6.75	5.95
2 row potato planter	3.646	3.217	1.28 Hr.	4.67	4.12	70.05	70.04
6' steel roller	2.222	1.961	.30 Hr.	.67	.59	10.05	10.03
4' scraper (rent)	.50	.50	.10 Hr.	.05	.05	.75	.85
Materials:							
Irrigation water	.468	.481	36.0 ac."	16.85	17.32	252.75	294.44
Seed (cut & dipped)	6.30	6.30	16 cwt	100.80	100.80	1512.00	1713.60
Fertilizer (17-7-0)			800 lbs	30.00	30.00	450.00	510.00
Labor:							
Drivers 1955	1.00		8.09 Hr.	8.09		121.35	
1953		1.00	7.64 Hr.		7.64		129.88
Irrigator	.90	.90	18.00 Hr.	16.20	16.20	243.00	275.40
General	.90	.90	1.28 Hr.	1.15	1.15	17.25	19.55
Soc.Sec.& Comp.Insur.				1.48	1.45	22.13	24.64
Contracts:							
Dust (5% DDT-50% sulfur)			30 lbs	4.05	4.05	60.75	68.85
Rotobeat				3.00	3.00	45.00	51.00
Dig				12.00	12.00	180.00	204.00
Pick	.16	.16	360 cwt	57.60	57.60	864.00	979.20
Haul	.075	.075	360 cwt	27.00	27.00	405.00	459.00
Shed cost	.55	.55	290 cwt	159.50	159.50	2392.50	2711.50
Int. on operating capital				5.07	5.13	76.06	87.14
Total operating				459.35	460.97	6890.19	7836.41
Total Cost				500.98	502.71	7521.04	8552.39

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 22. Annual Tractor and Equipment Hours, 1955 and 1953; 80-3 Farms in Upper San Joaquin Valley

Item	Cotton			Barley			Milo		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	per acre	1955 total (30 acres)	1953 total (17 acres)	per acre	1955 total (14 acres)	1955	1953
W-1	5.45	179.85	327.00	.44	13.20	7.48	2.90	40.60	233.65	334.48
W-2	4.89	161.37	293.40	1.12	33.60	19.04	2.23	31.22	226.19	312.44
Pickup									10,000 miles	
4' ditcher	.30	9.90	18.00				.20	2.80	12.70	18.00
8' chisel	1.50	49.50	90.00						49.50	90.00
6'9" offset	1.23	40.59	73.80	.90	27.00	15.30	1.27	17.78	85.37	89.10
8' spiketooth harrow				.90	27.00	15.30				
12' spiketooth harrow	.22	7.26	13.20	.22	6.60	3.74			31.86a/	27.14a/
10' cultipacker	.27	8.91	16.20				.45	6.30	15.21	16.20
2 row lister planter	1.06	34.98	63.60				1.06	14.84	49.82	63.60
2 row cultivator	4.96	163.68	297.60				2.40	33.60	197.28	297.60
Cotton trailer-5 bale	1.50	49.50	90.00						49.50	90.00

a/ Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus 12' spiketooth harrow hours.

Table 23. Irrigation Water Use, 1955 and 1953, for 80-3 Farms in Upper San Joaquin Valley

Year and period	Cotton		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	
1955	(33 acres)		(30 acres)		(14 acres)		
1/1 - 4/30	6.0	198	14.4	432	-		630
5/1 - 6/30	8.0	264	-	-	6.0	84	348
7/1 - 8/31	23.5	775.5	-	-	17.0	238	1013.5
9/1 - 12/31	4.5	148.5	-	-	4.0	56	204.5
Seasonal per acre	42.00	-	14.40	-	27.00	-	-
Seasonal per farm	-	1386	-	432	-	378	2196
1953	(60 acres)		(17 acres)		(--------)		
1/1 - 4/30	6.0	360	14.4	244.8	-	-	604.8
5/1 - 6/30	8.0	480	-	-	-	-	480
7/1 - 8/31	21.0	1260	-	-	-	-	1260
9/1 - 12/31	4.0	240	-	-	-	-	240
Seasonal per acre	39.00	-	14.40	-	-	-	-
Seasonal per farm	-	2340	-	244.8	-	-	2584.8

Table 24. Inputs and Costs for Producing Barley on 80-3

1955 Yield: 25 cwt 1953 Yield: 21 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 30 acres	Total Cost 1953 17 acres
Overhead:							
Real estate taxes				6.50	6.50	201.50a/	117.00a/
Office				1.95	1.95	58.44a/	33.12a/
Improvements				2.17	2.17	64.95a/	36.82a/
Power				6.62	5.09	198.60	86.53
Equipment				.94	.93	28.20	15.81
Irrigation water				6.00	5.11	180.00	86.87
Total overhead				24.18	21.75	731.69	376.15
Operating:							
Power:							
Tractor W-1	.657	.579	.44 Hrs	.29	.25	8.70	4.25
Tractor W-2	.910	.824	1.12 Hrs	1.02	.92	30.60	15.64
Pickup 1955	.035		91.0 Mi	3.18		95.40	
1953		.035	72.0 Mi		2.56		43.52
Equipment:							
6'9" offset disk	.923	.809	.90 Hrs	.83	.73	24.90	12.41
8' spiketooth	.037	.044	.90 Hrs	.03	.04	.90	.68
12' spiketooth	.056	.066	.22 Hrs	.01	.01	.30	.17
Border disk (rent)	.50	.50	.22 Hrs	.11	.11	3.30	1.87
Broadcaster (rent)	.25	.25	.22 Hrs	.06	.06	1.80	1.02
Materials:							
Irrigation water	.551	.512	14.4 ac.in.	7.93	7.37	237.90	125.29
Seed	.04	.04	80 lbs	3.20	3.20	96.00	54.40
Labor:							
Drivers 1955	1.00		3.83 Hrs	3.83		114.90	
1953		1.00	3.38 Hrs		3.38		57.46
Irrigator	.90	.90	7.20 Hrs	6.48	6.48	194.40	110.16
Soc.Sec.& Comp.Insur.				.60	.57	18.00	9.69
Contracts:							
Harvest				5.00	5.00	150.00	85.00
Haul 1955	.10		25 cwt	2.50		75.00	
1953		.10	21 cwt		2.10		35.70
Storage 1955	.144		25 cwt	3.60		108.00	
1953		.144	21 cwt		3.02		51.34
Insurance 1955 ($1.50 per $100 of value)				.81		24.30	
1953					.85		14.45
Interest on Operating capital				.92	.86	27.63	14.54
Total operating				40.40	37.51	1212.03	637.59
Total cost				64.58	59.26	1943.72	1013.74

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 25. Inputs and Costs for Producing Cotton on 80-3
1955 Yield: 1.8 Bales 1953 Yield: 1.5 Bales

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost Per Acre 1955	Cost Per Acre 1953	Total Cost 1955 33 acres	Total Cost 1953 60 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	221.00a/	403.00a/
Office					1.95	1.95	64.28a/	116.88a/
Improvements					2.17	2.17	71.45a/	129.90a/
Power					25.06	18.55	826.98	1,113.00
Equipment					16.37	10.14	540.21	608.40
Irrigation water					17.51	13.84	577.83	830.40
Total overhead					69.56	53.15	2301.75	3,201.58
Operating:								
Power:								
Tractor W-1		.657	.579	5.45 hr	3.58	3.16	118.14	189.60
Tractor W-2		.910	.824	4.89 hr	4.45	4.03	146.85	241.80
Pickup	1955	.035		182.0 mi	6.37		210.21	
	1953		.035	146.0 mi		5.11		306.60
Equipment:								
4' ditcher		.319	.225	.30 hr	.10	.07	3.30	4.20
8' chisel		1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk		.923	.884	1.23 hr	1.14	1.09	37.62	65.40
12' spiketooth		.056	.066	.22 hr	.01	.01	.33	.60
10' cultipacker		2.137	2.006	.27 hr	.58	.54	19.14	32.40
2 row lister planter		.702	.550	1.06 hr	.74	.58	24.42	34.80
2 row cultivator		.355	.235	4.96 hr	1.76	1.17	58.08	70.20
5 bale cotton trailer		1.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)		.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)		1.00	1.00	.50 hr	.50	.50	16.50	30.00
Materials:								
Irrigation water	1955	.551		42.0 ac"	23.14		763.62	
	1953		.512	39.0 ac"		19.97		1,198.20
Seed (acid delint)		.115	.115	18 lbs	2.07	2.07	68.31	124.20
Labor:								
Drivers	1955	1.00		16.22 hr	16.22		535.26	
	1953		1.00	15.34 hr		15.34		920.40
Irrigator	1955	.90		21.00 hr	18.90		623.70	
	1953		.90	19.50 hr		17.55		1,053.00
General		.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.					2.07	1.94	68.31	116.40
Contracts:								
Fertilize (NH_3)	1955			130 lbs	15.40		508.20	
(NH_3)	1953			115 lbs		13.58		814.80
Dust 2X(5% DDT-50% sulfur)				60 lbs	8.10	8.10	267.30	486.00
Hand thin					5.00	5.00	165.00	300.00
Hand weed					5.00	5.00	165.00	300.00
Defoliate ($NaClO_3$ w/Borate or Mg)				10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine	1955	24.50		1.8 bale	44.10		1455.30	
	1953		24.50	1.5 bale		36.75		2,205.00
Gin	1955	14.70		1.8 bale	26.46		873.18	
	1953		14.70	1.5 bale		22.05		1,323.00
Insurance & storage	1955	1.19		1.8 bale	2.14		70.62	
	1953		1.19	1.5 bale		1.79		107.40
Interest on operating capital					2.90	2.61	95.64	156.82
Total operating					198.68	174.58	6556.38	10,475.02
Total cost					268.24	227.73	8858.13	13,676.60

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 26. Inputs and Costs for Producing Milo on 80-3

1955 Yield: 40 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 14 acres	Total Cost 1953 acres
Overhead:							
Real estate taxes				6.50		97.50a/	
Office				1.95		27.28a/	
Improvements				2.17		30.32a/	
Power				12.40		173.60	
Equipment				3.96		55.44	
Irrigation water				11.26		157.64	
Total overhead				38.24		541.78	
Operating:							
Power:							
Tractor W-1	.657		2.90 hrs	1.91		26.74	
Tractor W-2	.910		2.23 hrs	2.03		28.42	
Pickup	.035		91.0 mi	3.18		44.52	
Equipment:							
4' ditcher	.319		.20 hrs	.06		.84	
6'9" offset disk	.923		1.27 hrs	1.17		16.38	
10' cultipacker	2.137		.45 hrs	.96		13.44	
2 row lister planter	.702		1.06 hrs	.74		10.36	
2 row cultivator	.355		2.40 hrs	.85		11.90	
4' scraper (rent)	.50		.20 hrs	.10		1.40	
Materials:							
Irrigation water	.551		27.0 ac.in.	14.88		208.32	
Seed	.08		10 lbs	.80		11.20	
Labor:							
Drivers	1.00		7.42 hrs	7.42		103.88	
Irrigator	.90		13.50 hrs	12.15		170.10	
General	.90		.56 hrs	.50		7.00	
Soc. Sec. & comp. insur.				1.16		16.24	
Contracts:							
Harvest				6.00		84.00	
Haul	.10		40 cwt	4.00		56.00	
Storage	.144		40 cwt	5.76		80.64	
Insurance ($1.50 per $100 of value)			40 cwt	1.38		19.32	
Interest on operating capital				1.58		22.19	
Total operating				66.63		932.89	
Total cost				104.87		1474.67	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 27. Crops and Land Use on Typical 160 Acre Farms, 1953-1955; 160-1, Cotton-Alfalfa Seed-Barley, 160-2, Cotton-Potatoes-Milo, 160-3, Cotton-Alfalfa-Potatoes, in Upper San Joaquin Valley

Year	Cotton	Alfalfa Seed	Alfalfa	Potatoes	Milo	Field Corn	Barley	Idle or Fallow	Double Crop	Total Crop-land	Non Culti-vated	Total Land
1	2	3	4	5	6	7	8	9	10	11	12	13
160-1												
1953	100	15	--	--	--	--	30	3	--	148	12	160
1954	66	25	--	--	--	--	43	14	--	148	12	160
1955	55	30	--	--	--	--	48	15	--	148	12	160
Changes												
1953 to 1954	-34	+10	--	--	--	--	+13	+11	--	--	--	--
1954 to 1955	-11	+ 5	--	--	--	--	+ 5	+ 1	--	--	--	--
1953 to 1955	-45	+15	--	--	--	--	+18	+12	--	--	--	--
160-2												
1953	100	--	--	35	10	--	--	3	--	148	12	160
1954	66	--	15	25	35	--	35	7	35	148	12	160
1955	55	--	20	28	40	--	40	5	40	148	12	160
Changes												
1953 to 1954	-34	--	+15	-10	+25	--	+35	+4	+35	--	--	--
1954 to 1955	-11	--	+ 5	+ 3	+ 5	--	+ 5	-2	+ 5	--	--	--
1953 to 1955	-45	--	+20	- 7	+30	--	+40	+2	+40	--	--	--
160-3												
1953	100	--	25	20	--	--	--	3	--	148	12	160
1954	66	--	35	15	--	27a/	--	5	--	148	12	160
1955	55	--	45	17	--	25	--	6	--	148	12	160
Changes												
1953 to 1954	-34	--	+10	- 5	--	+27	--	+2	--	--	--	--
1954 to 1955	-11	--	+10	+ 2	--	- 2	--	+1	--	--	--	--
1953 to 1955	-45	--	+20	- 3	--	+25	--	+3	--	--	--	--

a/ Sugar beets, an alternate for 15 acres in 1954.

Table 28. Physical Resources and Investment for Typical 160-Acre Farms (160-1, 160-2, 160-3) in Upper San Joaquin Valley, 1955 Prices [a]

Item and Description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Land:						
Total farm	160 acres					
Cultivated land	158 acres					
Improvements:						
Shop, storage		1		$ 2,000.00		$ 1,000.00
Tractor & equipment shed		1		1,000.00		500.00
Fuel storage - gas	550 gal.	1		135.00		67.50
Fuel storage - diesel	350 gal.	1		110.00		55.00
Subtotal				3,245.00		1,622.50
Irrigation facilities:						
Pumping plant (40HP)	650 gpm	2	$3200.00	6,400.00	$1640.00	3,280.00
Well, casing (180' lift)	12" diam.	2x400'	6.50	5,200.00	3.25	2,600.00
Subtotal				11,600.00		5,880.00
Distribution system:						
Reservoir	4.0 ac.'	1		80.00		40.00
Pipe	12"	5280'	.80	4,224.00	.40	2,112.00
Stands	6'x36"	4	54.00	216.00	17.00	108.00
Vents	6'x8"	4	4.20	16.80	2.10	8.40
Valves, alfalfa	12"	140	18.56	2,598.40	9.28	1,299.20
Row pipe	2"	400	1.50	600.00	.75	300.00
Siphons	1 1/2"	200	1.27	254.00	.64	127.00
Subtotal				7,989.20		3,994.60
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-2	2	3000.00	6,000.00	2100.00	4,200.00
Subtotal				13,000.00		8,050.00
Transportation:						
Pickup	3/4 ton	1		2,300.00		1,380.00
Equipment:						
Ditcher	4'	1		135.00		67.50
Scraper	4'	1		140.00		70.00
Plow, 2 way	2-16"	1		550.00		275.00
Disk-offset	9'	1		750.00		375.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	2 row	1		350.00		175.00
Cultivator	4 row	1		1,000.00		500.00

(Continued on next page.)

Table 28 continued.

Item and Description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Equipment, continued:						
Cotton picker	1 row	1		$ 8,700.00		$ 5,220.00
Cotton Trailer	5 bale	4	$ 400.00	1,600.00	$ 220.00	880.00
Stalk cutter	2 row	1		325.00		162.50
Additional equipment: 160-2 & 160-3 only						
Power mower b/	7'	1		350.00		175.00
Side delivery rake b/	8'	1		520.00		260.00
Potato planter				700.00		350.00
Steel roller				200.00		100.00
Equipment 160-1				14,570.00		8,235.00
Equipment 160-2 1955				16,340.00		9,120.00
1953				15,440.00		8,670.00
Equipment 160-3				16,340.00		9,120.00
Total 160-1				$52,704.20		$29,162.10
Total 160-2 1955				$54,474.20		$30,047.10
1953				$53,574.20		$29,597.10
Total 160-3				$54,474.20		$30,047.10

a/ The designations 160-1, 160-2, 160-3 refer to three variations found in the 160 acre size group.

b/ Purchased after 1953 for 160-2.

Table 29. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	9' offset disk	28	.32	.32	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	9' offset w/12' spike	26	.35	.35	
2/1 - 3/15	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - contract							12.5# 2% parathion

Table 30. Calendar of Operations & Physical Inputs Per Acre for Producing Alfalfa on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Irrigation	1						5.6 ac. in.
4/5 - 4/15	Cut 1st*	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
5/5 - 5/15	Cut 2nd*	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
6/5 - 6/15	Cut 3rd	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
7/5 - 7/15	Cut 4th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
8/5 - 8/15	Cut 5th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
9/5 - 9/15	Cut 6th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
10/5 - 10/15	Cut 7th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate	1						4 ac. in.

* No cutting for 1st year of stand

Table 31. Calendar of Operations & Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed for 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Landplane 2X - contract							
	Furrow out	1	W-2	4 row lister planter	30	.30	.30	
	Make head ditches	1	T-5D	4' ditcher		.05	.05	
	Preirrigate	1						8 ac. in.
	Fill in ditches	1	W-2	4' scraper		.05	.05	
	Harrow beds	1	W-2	12' spiketooth harrow	45	.20	.20	
2/1 - 2/20	Plant	2	W-2	4 row lister planter	29	.62	.31	1½# seed
3/1 - 3/20	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - contract							12.5 # 2% parathion

Table 32. Calendar of Operations & Physical Inputs Per Acre for Producing Alfalfa Seed on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
5/1 - 5/20	Fertilize - contract							300# super phosphate
	Bees - contract							3 colonies
4/20 - 5/10	Irrigate	1						10 ac. in.
5/10 - 5/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
6/1 - 6/10	Irrigate	1						10 ac. in.
	Dust 2X - contract							60# 5% DDT-75% S
6/10 - 6/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
6/10 - 6/20	Weed - contract							
7/1 - 7/10	Irrigate							10 ac. in.
7/10 - 7/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
8/16 - 8/26	Defoliate - contract							1 qt. sinox in 10 gal. Diesel oil
8/20 - 8/30	Harvest - contract							
9/1 - 9/10	Disk	1	W-2	9' offset disk	27	.33	.33	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth(rented)	45	.40	.40	

Table 33. Calendar of Operations & Physical Inputs Per Acre Producing Barley on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (Harrow on 2nd time)	1	T-5D	9' offset disk w/12' spike	26	.70	.70	
12/20 - 1/20	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	80# seed
12/20 - 1/20	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
12/22 - 1/22	Border up	1	W-2	border disk (rented)	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						14.4 ac. in.
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							

Table 34. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day		Physical requirements	
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Furrow out	1	W-2	4 row lister planter	28	.32	.32	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate							6 ac. in.
	Fill in ditches*	1	W-2	4' scraper		.20	.20	
3/20 - 4/15	Plant	2	W-2	4 row lister planter	29	.62	.31	10# seed
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Irrigate							4 ac. in.
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
	Fertilize - contract							120# NH_3 (84%)
	Irrigate 2X							8 ac. in.
	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
	Irrigate 6X	1						24 ac. in.
9/20 - 10/15	Pick & haul - contract							
	Shell - contract							

* occurs 4X - man-hours and tractor-hours are total for season

Table 35. Calendar of Operations and Physical Inputs Per Acre for Producing Cotton on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	Cut Stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64		
	Plow	1	T-5D	2 way/2-16"	12	.75	.75		
	Furrow Out	1	W-2	4 row lister-planter	30	.30	.30		
	Make Head Ditches*	1	T-5D	4' ditches		.25	.25		
	Preirrigate	1						5 ac.in.	6 ac.in.
	Fill in ditches*	1	W-2	4' scraper		.25	.25		
	Harrow beds	1	W-2	12' Spiketooth harrow	45	.20	.20		
4/1 - 4/15	Plant	2	W-2	4 row lister planter	29	.62	.31	18# acid delint seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
4/25 - 5/5	Cultivate (1)	1	W-2	4 row cultivator	22	.41	.41		
	Hand thin - contract								
	Cultivate (2)	1	W-2	4 row cultivator	24	.38	.38		
	Fertilize - contract							100# NH_3	120# NH_3
	Cultivate (3)	1	W-2	4 row cultivator	28	.32	.32		
5/20 - 6/10	Irrigate (1)	1						3 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-2	4 row cultivator	28	.32	.32		
	Irrigate (2)	1						3 ac.in.	4 ac.in.
	Cultivate (5)	1	W-2	4 row cultivator	28	.32	.32		
6/15 - 8/15	Dust 2X - contract							60# 5% DDT - 50% S	
	Irrigate (3)	1						4 ac.in.	4 ac.in.
7/20 - 7/30	Cultivate & lay by (6)	1	W-2	4 row cultivator	28	.32	.32		
8/5 - 9/10	Irrigate 6 X (4-9)	1						24 ac.in.	24ac.in.
9/10 - 9/30	Defoliate - contract							10# of $NaClO_3$ w/Borate or Mg.	
10/1 - on	Pick 1st	2	W-2	1 row cotton harvester	6	3.00	1.50		
11/15 - on	Pick 2nd	2	W-2	1 row cotton harvester	7	2.56	1.28		
10/1 - on	Haul to gin	1	Pick-up	5 bale cotton trailer	6	1.50	1.50		
	Gin - contract								

* occurs 5X - Man-hours and tractor-hours are total for season

Table 36. Calendar of Operations & Physical Inputs Per Acre for Producing Milo on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Furrow out	1	W-2	4 row lister planter	30	.30	.30	
	Make head ditches*	1	T-5D	4' ditcher		.20	.20	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper		.20	.20	
	Disk w/cultipacker attached	1	T-5D	9' offset disk w/12' cultipacker	26	.35	.35	
6/15 - 7/15	Plant	2	W-2	4 row lister planter	29	.62	.31	10# seed
	Irrigate	1						5 ac. in.
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
	Irrigate	1						4 ac. in.
7/15 - 8/15	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
7/25 - 9/5	Irrigate 3X	1						12 ac. in.
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

* Occurs 4X - man-hours and tractor-hours are total for season

Table 37. Calendar of Operations & Physical Inputs Per Acre for Producing Potatoes on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X with harrow	1	T-5D	9' offset disk & 12' spiketooth harrow	26	.70	.70	
1/5 - 2/15	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	16 cwt 800# 17-7-0
	Harrow beds	1	W-2	12' harrow	45	.20	.20	
	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	
	Make head ditches*	1	T-5D	4' ditcher		.10	.10	
2/20 - 2/30	Irrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper		.10	.10	
	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	
3/20 - 6/1	Irrigate continuous	1						30 ac. in.
5/5 - 6/5	Dust 1X - contract							30# of 5% DDT 50% S
	Roll	1	W-2	6' steel roller	30	.30	.30	
	Rotobeat - contract							
5/20 - 6/20	Dig - contract							
	Pick - contract							
	Haul - contract							

* occurs 2X - man-hours & tractor-hours are total for season

Table 38. Annual Tractor and Equipment Hours, 1955 and 1953; 160-1 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa seed			Barley			All crop total	
	per acre	1955 total (55 acres)	1953 total (100 acres)	per acre	1955 total (30 acres)	1953 total (15 acres)	per acre	1955 total (48 acres)	1953 total (30 acres)	1955	1953
T-5D	1.64	90.20	164.00	.48	14.40	7.20	.70	33.60	21.00	138.20	192.20
W-2	7.01	385.55	701.00	2.88	86.40	43.20	.66	31.68	19.80	503.63	764.00
Pickup										(10,000 miles)	
4' ditcher	.25	13.75	25.00	.02	.60	.30				14.35	25.30
4' scraper	.25	13.75	25.00	.02	.60	.30				14.35	25.30
2w/2-16" plow	.75	41.25	75.00	.25	7.50	3.75				48.75	78.75
9' offset disk	.64	35.20	64.00	.54	16.20	8.10	.70	33.60	21.00	85.00	93.10
12' spiketooth harrow	.20	11.00	20.00	.13	3.90	1.95	.57	27.36	17.10	42.26	39.05
12' cultipacker	.20	11.00	20.00							11.00	20.00
4 row lister planter	.61	33.55	61.00	.20	6.00	3.00				39.55	64.00
2 row cultivator	1.00	55.00	100.00							55.00	100.00
4 row cultivator	1.57	86.35	157.00	1.80	54.00	27.00				140.35	184.00
1 row cotton picker	5.56	305.80	556.00							305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00							82.50	150.00
2 row stalk cutter	.50	27.50	50.00							27.50	50.00

Table 39. Irrigation Water Use, 1955 and 1953; for 160-1 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa Seed		Barley		All crop total
	per acre	total	per acre	total	per acre	total	
1955	(55 acres)		(30 acres)		(48 acres)		
1/1 - 4/30	6.0	330	10.0	300	14.4	691.2	1321.2
5/1 - 6/30	8.0	440	10.0	300	-	-	740.0
7/1 - 8/31	24.0	1320	10.0	300	-	-	1620.0
9/1 - 12/31	4.0	220	-	-	-	-	220.0
Seasonal per acre	42.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	2310	-	900	-	691.2	3901.2
1953	(100 acres)		(15 acres)		(30 acres)		
1/1 - 4/30	5.0	500	10.0	150	14.4	432	1082
5/1 - 6/30	6.0	600	10.0	150	-	-	750
7/1 - 8/31	24.0	2400	10.0	150	-	-	2550
9/1 - 12/31	4.0	400	-	-	-	-	400
Seasonal per acre	39.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	3900	-	450	-	432	4782

Table 40. Inputs and Costs for Producing Alfalfa Seed on 160-1
1955 Yield: 550 lbs. 1953 Yield: 550 lbs.

Item		Unit Cost 1955	Unit Cost 1953	Units used per Acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 30 acres	Total Cost 1953 15 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	253.50a/	130.00a/
Office					1.52	1.52	51.69a/	24.33a/
Improvements					2.47	2.47	83.99a/	39.53a/
Power					6.75	4.73	202.50	70.95
Equipment					1.99	1.58	59.70	23.70
Irrigation water					11.22	9.15	336.60	137.25
1/3 cost to establish stand					15.05	12.86	451.42	192.96
Total overhead					45.50	38.81	1439.40	618.72
Operating:								
Power:								
Tractor W-2		.878	.849	2.53 hr	2.22	2.15	66.60	32.25
Pickup	1955	.042		53.20 mi	2.23		66.90	
	1953		.042	40.80 mi		1.71		25.65
Equipment:								
9' offset disk		1.323	1.209	.33 hr	.44	.40	13.20	6.00
4 row cultivator		1.425	1.087	1.80 hr	2.56	1.96	76.80	29.40
12' springtooth (rent)		.50	.50	.40 hr	.20	.20	6.00	3.00
Materials:								
Irrigation water		.585	.529	30.0 ac"	17.55	15.87	526.50	238.05
Labor:								
Drivers	1955	1.00		3.86 hr	3.86		115.80	
	1953		1.00	3.55 hr		3.55		53.25
Irrigators		.90	.90	12.98 hr	11.68	11.68	350.40	175.20
Soc. Sec. & Comp. Insur.					.90	.88	27.04	13.25
Contracts:								
Fertilize (single super phosphate)				300 lbs	7.10	7.10	213.00	106.00
Bees(colonies)		5.00	5.00	3	15.00	15.00	450.00	225.00
Dust (5% DDT-75% sulfur)				60 lbs	7.95	7.95	238.50	119.25
Weed					15.00	15.00	450.00	225.00
Defoliate (sinox)				1 qt	5.40	5.40	162.00	81.00
Harvest		.03	.03	550 lbs	16.50	16.50	495.00	247.50
Certification fees (sacks, cleaning, inspection)					10.12	10.12	303.60	151.80
Box rental					1.00	1.00	30.00	15.00
Interest on operating capital					3.19	3.10	95.58	46.57
Total operating					122.90	119.57	3686.92	1793.17
Total cost					168.40	158.38	5126.32	2411.89

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

	Total Cost		Unit Cost	Cost per Acre
Equipment:				
[illegible] tubes			6.50	[illegible]
[illegible]			[illegible]	[illegible]
[illegible] tubes			2.47	[illegible]
[illegible]			6.75	[illegible]
[illegible]			[illegible]	[illegible]
[illegible] water			72.2	[illegible]
[illegible]			[illegible]	[illegible]
Total overhead			[illegible]	[illegible]
Operating:				
[illegible]				
Harvest 1-2	[illegible]	.04	2.52 ac	2.52	[illegible]
[illegible]				
[illegible]	[illegible]	[illegible]	.22 ac	.44	[illegible]
[illegible]	[illegible]	[illegible]	1.50 ac	[illegible]	[illegible]
[illegible] (seed)	.5	.10	.10 ac	.20	[illegible]
[illegible]					
[illegible]	.50	.50	32.0 ac	17.00	[illegible]
[illegible]					
[illegible]	.20	.00	12.50 ac	11.60	[illegible]
[illegible]				.20	[illegible]
[illegible]					
[illegible] ([illegible] per [illegible])			300 lbs	7.10	[illegible]
[illegible] (pounds)	5.50	3.00	3	15.00	[illegible]
[illegible] (Fuhrer)					
[illegible]					
[illegible]					
[illegible]					
Interest on operating capital					

1/ Total does not equal annual per acre multiplied by acres due to [illegible] for non-crop acres.

Table 41. Cost of Inputs to Establish an Alfalfa Seed Stand on 160-1

Item	Unit Cost		Units used per Acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 30 acres	1953 15 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	8.172	6.017	1.44 hr	11.77	8.66	353.10	129.90
Tractor W-2	2.514	1.927	1.06 hr	2.66	2.04	79.80	30.60
Equipment:							
4' ditcher	1.476	.836	.05 hr	.07	.04	2.10	.60
4' scraper	1.528	.867	.05 hr	.08	.04	2.40	.60
2 way/2-16" plow	3.121	1.932	.75 hr	2.34	1.45	70.20	21.75
9' offset disk	2.441	2.229	.64 hr	1.56	1.43	46.80	21.45
12' spiketooth	.241	.261	.40 hr	.10	.10	3.00	1.50
4 row lister planter	3.152	1.948	.61 hr	1.92	1.19	57.60	17.85
Materials:							
Irrigation water	.959	.834	8 Ac in	7.67	6.67	230.10	100.05
Seed	.40	.40	1.5 lbs	.60	.60	18.00	9.00
Labor:							
Drivers	1.00	1.00	2.50 hr	2.50	2.50	75.00	37.50
Irrigators	.90	.90	3.46 hr	3.11	3.11	93.30	46.65
General	.90	.90	.31 hr	.28	.28	8.40	4.20
Soc. Sec. & Comp. Insur.				.34	.34	10.25	5.12
Contracts:							
Landplane 2X				8.00	8.00	240.00	120.00
Dust (2% parathion)			12.5 lbs	2.14	2.14	64.20	32.10
Total cost				45.14	38.59	1354.25	578.87
Amount charged off annually a/				15.05	12.86	451.42	192.96

a/ Total cost to establish stand is depreciated over three years.

Table 42. Inputs and Costs for Producing Barley on 160-1
1955 Yield: 25 cwt. 1953 Yield: 21 cwt.

Item	Unit Cost 1955	Unit Cost 1953	Units used per Acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 48 acres	Total Cost 1953 30 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	370.50a/	227.50a/
Office				1.52	1.52	79.05a/	47.13a/
Improvements				2.47	2.47	128.46a/	76.58a/
Power				7.92	5.75	380.16	172.50
Equipment				.89	.83	42.72	24.90
Irrigation water				5.39	4.39	258.72	131.70
Total overhead				24.69	21.46	1259.61	680.31
Operating:							
Power:							
Tractor T-5D	2.128	1.671	.70 hr	1.49	1.17	71.52	35.10
Tractor W-2	.878	.849	.66 hr	.58	.56	27.84	16.80
Pickup 1955	.042		53.20 mi	2.23		107.04	
1953		.042	40.83 mi		1.71		51.30
Equipment:							
9' offset disk	1.323	1.209	.70 hr	.94	.85	44.64	25.50
12' spiketooth	.042	.046	.57 hr	.02	.03	.96	.90
Border disk (rent)	.50	.50	.22 hr	.11	.11	5.28	3.30
Broadcaster (rent)	.25	.25	.22 hr	.06	.06	2.88	1.80
Materials:							
Irrigation water	.585	.529	14.4 ac"	8.42	7.62	404.16	228.60
Seed	.04	.04	80 lbs	3.20	3.20	153.60	96.00
Labor:							
Drivers 1955	1.00		2.69 hr	2.69		129.12	
1953		1.00	2.38 hr		2.38		71.40
Irrigators	.90	.90	6.23 hr	5.61	5.61	269.28	168.30
Soc. Sec. & Comp. Insur.				.48	.46	23.11	13.90
Contracts:							
Harvest				5.00	5.00	240.00	150.00
Haul 1955	.10		25 cwt	2.50		120.00	
1953		.10	21 cwt		2.10		75.00
Storage 1955	.144		25 cwt	3.60		172.80	
1953		.144	21 cwt		3.02		90.60
Insurance ($1.50 per $100.00 of value)				.81	.85	38.70	25.52
Interest on operating capital				.96	.90	46.25	27.02
Total operating				38.69	35.63	1857.18	1081.04
Total cost				63.38	57.09	3116.79	1761.35

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 43. Inputs and Costs for Producing Cotton on 160-1
1955 Yield: 2.1 Bales 1953 Yield: 1.75 Bales

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost Per Acre 1955	Cost Per Acre 1953	Total Cost 1955 55 acres	Total Cost 1953 100 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	416.00a/	682.50a/
Office				1.52	1.52	94.26a/	153.54a/
Improvements				2.47	2.47	153.17a/	249.51a/
Power				26.59	18.69	1,462.45	1,869.00
Equipment				43.83	24.82	2,410.65	2,482.00
Irrigation water				15.71	11.90	864.05	1,190.00
Total overhead				96.62	65.90	5,400.58	6,626.55
Operating:							
Power:							
Tractor T-5D	2.128	1.671	1.64 hr	3.49	2.74	191.95	274.00
Tractor W-2	.878	.849	7.01 hr	6.15	5.95	338.25	595.00
Pickup 1955	.042		106.40 mi	4.47		245.85	
1953		.042	81.63 mi		3.43		343.00
Equipment:							
4' ditcher	.282	.160	.25 hr	.07	.04	3.85	4.00
4' scraper	.292	.166	.25 hr	.07	.04	3.85	4.00
2 way/2-16" plow	1.692	1.047	.75 hr	1.27	.79	69.85	79.00
9' offset disk	1.323	1.209	.64 hr	.85	.77	46.75	77.00
12' spiketooth	.042	.046	.20 hr	.01	.01	.55	1.00
12' cultipacker	3.455	1.900	.20 hr	.69	.38	37.95	69.00
4 row lister planter	1.390	.860	.61 hr	.85	.52	46.75	85.00
2 row cultivator	1.273	.700	1.00 hr	1.27	.70	69.85	127.00
4 row cultivator	1.425	1.087	1.57 hr	2.24	1.71	123.20	224.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	87.00
1 row cotton picker	4.758	2.617	5.56 hr	26.45	14.55	1,454.75	2,645.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	30.00
Materials:							
Irrigation water 1955	.585		42.0 ac"	40.28		2,215.40	
1953		.529	39.0 ac"		32.53		3,253.00
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	113.85	207.00
Labor:							
Drivers 1955	1.00		12.55 hr	12.55		690.25	
1953		1.00	12.02 hr		12.02		1,202.00
Irrigators 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.09 hr	2.78	2.78	152.90	278.00
Soc.sec. & comp. insur.				1.84	1.74	101.06	173.94
Contracts:							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH_3) 1955			120 lbs	14.10		775.50	
(NH_3) 1953			100 lbs		11.75		1,175.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Dust 2X (5% DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Defoliate ($NaClO_3$ w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.1 bale	30.87		1,697.85	
1953		14.70	1.75 bale		25.72		2,572.00
Ins. & storage 1955	1.19		2.1 bale	2.50		137.50	
1953		1.19	1.75 bale		2.08		208.00
Interest on operating capital				4.71	4.32	259.12	431.56
Total operating				219.45	184.82	12,069.68	19,898.50
Total cost				316.07	250.72	17,470.26	26,525.05

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 44. Annual Tractor and Equipment Hours, 1955 and 1953; 160-2 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa		Potatoes			Milo			Barley		All crop total	
	per acre	1955 total (55 ac)	1953 total (100 ac)	per acre	1955 total (20 ac)	per acre	1955 total (28 ac)	1953 total (35 ac)	per acre	1955 total (40 ac)	1953 total (10 ac)	per acre	1955 total (40 ac)	1955	1953
T-5D	1.64	90.20	164.00	.33	6.60	2.19	61.32	76.65	1.19	47.60	11.90	.70	28.00	233.72	252.55
W-2	7.01	385.55	701.00	4.30	8.60	2.78	77.84	97.30	2.05	82.00	20.05	.66	26.40	580.39	818.35
Pickup														(10,000 miles)	
4' ditcher	.25	13.75	25.00			.10	2.80	3.50	.20	8.00	2.00			24.55	30.50
4' scraper	.25	13.75	25.00			.10	2.80	3.50	.20	8.00	2.00			24.55	30.50
2w/2-16" plow	.75	41.25	75.00			.75	21.00	26.25						62.25	101.25
9' offset disk	.64	35.20	64.00	.33	6.60	1.34	37.52	46.90	.99	39.60	9.90	.70	28.00	146.92	120.80
12' spiketooth harrow	.20	11.00	20.00	.14	2.80	.90	25.20	31.50				.57	22.80	61.80	51.50
12' cultipacker	.20	11.00	20.00						.35	14.00	3.50			36.00	23.50
4 row lister planter	.61	33.55	61.00						.61	24.40	6.10			57.95	67.10
2 row cultivator	1.00	55.00	100.00			.90	25.20	31.50						80.20	131.50
4 row cultivator	1.57	86.35	157.00						1.24	49.60	12.40			135.95	169.40
1 row cotton picker	5.56	305.80	556.00											305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00											82.50	150.00
2 row stalk cutter	.50	27.50	50.00											27.50	50.00
7' power mower				2.17	43.40									43.40	a/
8' side delivery rake				2.03	40.60									40.60	a/
2 row potato planter						1.28	35.84	44.80						35.84	44.80
6' steel roller						.30	8.40	10.50						8.40	10.50

a/ This equipment purchased after 1953.

Table 45. Irrigation Water Use, 1955 and 1953; for 160-2 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Milo		Barley		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	per acre	total	
1955	(55 acres)		(20 acres)		(28 acres)		(40 acres)		(40 acres)		
1/1 - 4/30	6.0	330	13.6	272	22.0	616	-	-	14.4	576	1794
5/1 - 6/30	8.0	440	16.0	320	14.0	392	6.0	240	-	-	1392
7/1 - 8/31	24.0	1320	16.0	320	-	-	17.0	680	-	-	2320
9/1 - 12/31	4.0	220	12.0	240	-	-	4.0	160	-	-	620
Seasonal per acre	42.0	-	57.6	-	36.0	-	27.0	-	14.4	-	-
Seasonal per farm	-	2310	-	1152	-	1008	-	1080	-	576	6126
1953	(100 acres)		(-------)		(35 acres)		(10 acres)		(--------)		
1/1 - 4/30	5.0	500	-	-	22.0	770	-	-	-	-	1270
5/1 - 6/30	6.0	600	-	-	14.0	490	6.0	60	-	-	1150
7/1 - 8/31	24.0	2400	-	-	-	-	17.0	170	-	-	2570
9/1 - 12/31	4.0	400	-	-	-	-	4.0	40	-	-	440
Seasonal per acre	39.0	-	-	-	36.0	-	27.0	-	-	-	-
Seasonal per farm	-	3900	-	-	-	1260	-	270	-	-	5430

Table 46. Inputs and Costs to Establish an Alfalfa Stand on 160-2

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 20 acres	Total cost 1953 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	5.037		1.31 hr	6.60		132.00	
Tractor W-2	2.261		.42 hr	.95		19.00	
Equipment:							
9' offset disk	1.412		1.31 hr	1.85		37.00	
12' spiketooth	.165		.55 hr	.09		1.80	
Broadcaster (rented)	.25		.22 hr	.06		1.20	
Materials:							
Irrigation water	.697		8.0 ac"	5.58		111.60	
Seed	.34		25 lbs	8.50		170.00	
Labor:							
Drivers	1.00		1.73 hr	1.73		34.60	
Irrigators	.90		3.46 hr	3.11		62.20	
Soc. Sec. & Comp. Insur.				.28		5.61	
Contracts:							
Chisel 2X				5.50		110.00	
Landplane 3X				12.00		240.00	
Make borders				.75		15.00	
Dust (2% parathion)			12.5 lbs	2.19		42.80	
Total cost				49.14		982.81	
Amount charged off annually a/				12.28		245.70	

a/ Total cost to establish stand is depreciated over four years.

Table 47. Inputs and Costs for Producing Alfalfa on 160-2

1955 Yield: 7.0 Tons

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 20 acres	Total cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50		156.00a/	
Office				1.52		31.93a/	
Improvements				2.47		51.88a/	
Power				8.02		160.40	
Equipment				5.25		105.00	
Irrigation water				13.71		274.20	
1/4 cost to establish stand				12.28		245.60	
Total overhead				49.75		1,025.01	
Operating:							
Power:							
Tractor W-2	.841		4.20 hr	3.53		70.60	
Pickup	.042		42.00 mi	1.76		35.20	
Equipment:							
7' power mower	.807		2.17 hr	1.75		35.00	
8' side delivery rake	1.281		2.03 hr	2.60		52.00	
Materials:							
Irrigation water	.459		57.6 ac"	26.44		528.80	
Labor:							
Drivers	1.00		5.25 hr	5.25		105.00	
Irrigators	.90		24.92 hr	22.43		448.60	
Soc.Sec. & Comp. Insur.				1.61		32.11	
Contracts:							
Bale	3.50		7.0 ton	24.50		490.00	
Roadside	1.75		7.0 ton	12.25		245.00	
Total operating				102.12		2,042.31	
Total cost				151.87		3,067.32	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 48. Inputs and Costs for Producing Barley on 160-2

1955 Yield: 25 cwt

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 40 acres	Total cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				3.25b/		143.00a/	
Office				.76b/		31.17a/	
Improvements				1.24b/		50.64a/	
Power				6.74		269.60	
Equipment				.70		28.00	
Irrigation water				3.43		137.20	
Total overhead				16.12		659.61	
Operating:							
Power:							
Tractor T-5D	1.463		.70 hr	1.02		40.80	
Tractor W-2	.841		.66 hr	.56		22.40	
Pickup	.042		42.02 mi	1.76		70.40	
Equipment:							
9' offset disk	.765		.70 hr	.54		21.60	
12' spiketooth	.029		.57 hr	.02		.80	
Border disk (rented)	.50		.22 hr	.11		4.40	
Broadcaster (rented)	.25		.22 hr	.06		2.40	
Materials:							
Irrigation water	.459		14.4 ac"	6.61		264.40	
Seed	.04		80 lbs	3.20		128.00	
Labor:							
Drivers	1.00		2.41 hr	2.41		96.40	
Irrigators	.90		6.23 hr	5.61		224.40	
Soc.Sec. & Comp. Insur.				.47		18.61	
Contracts:							
Harvest				5.00		200.00	
Haul	.10		25 cwt	2.50		100.00	
Storage	.144		25 cwt	3.60		144.00	
Insurance ($1.50 per $100.00 of value)			25 cwt	.81		32.40	
Interest on operating capital				.74		29.55	
Total operating				35.02		1,400.56	
Total cost				51.14		2,060.17	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

Table 49. Inputs and Costs for Producing Cotton on 160-2
1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 55 acres	Total cost 1953 100 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	390.00a/	682.50a/
Office				1.52	1.52	86.65a/	153.54a/
Improvements				2.47	2.47	140.82a/	249.51a/
Power				19.94	16.48	1,096.70	1,648.00
Equipment				41.85	24.34	2,301.75	2,434.00
Irrigation water				10.00	10.49	550.00	1,049.00
Total overhead				82.28	61.80	4,565.92	6,216.55
Operating:							
Power:							
Tractor T-5D	1.463	1.390	1.64 hr	2.40	2.28	132.00	228.00
Tractor W-2	.841	.735	7.01 hr	5.90	5.15	324.50	515.00
Pickup 1955	.042		84.36 mi	3.54		194.70	
1953		.042	81.63 mi		3.43		343.00
Equipment:							
4' ditcher	.164	.132	.25 hr	.04	.03	2.20	3.00
4' scraper	.171	.138	.25 hr	.04	.03	2.20	3.00
2 way/2-16" plow	1.325	.815	.75 hr	.99	.61	54.45	61.00
9' offset disk	.765	.932	.64 hr	.49	.60	26.95	60.00
12' spiketooth	.029	.035	.20 hr	.01	.01	.55	1.00
12' cultipacker	1.055	1.617	.20 hr	.21	.32	11.55	32.00
4 row lister planter	.949	.820	.61 hr	.58	.50	31.90	50.00
2 row cultivator	.873	.532	1.00 hr	.87	.53	47.85	53.00
4 row cultivator	1.471	1.180	1.57 hr	2.31	1.85	127.05	185.00
1 row cotton picker	4.599	2.617	5.56 hr	25.57	14.55	1,406.35	1,455.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	48.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	16.00
Materials:							
Irrigation water 1955	.459		42.0 ac"	19.28		1,060.40	
1953		.491	39.0 ac"		19.15		1,915.00
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	113.85	207.00
Labor:							
Drivers 1955	1.00		11.91 hr	11.91		655.05	
1953		1.00	11.88 hr		11.88		1,188.00
Irrigators 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.09 hr	2.78	2.78	152.90	278.00
Soc. Sec. & Comp. Insur.				1.80	1.73	99.02	173.13
Contracts:							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH_3) 1955			120 lbs	14.10		775.50	
(NH_3) 1953			100 lbs		11.75		1,175.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Defoliate ($NaClO_3$ w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.5 bale	36.75		2,021.25	
1953		14.70	2.1 bale		30.87		3,087.00
Insur. & storage 1955	1.19		2.5 bale	2.98		163.90	
1953		1.19	2.1 bale		2.50		250.00
Interest on operating capital				4.01	3.52	220.57	352.14
Total operating				198.50	174.32	10,917.54	17,432.27
Total cost				280.78	236.12	15,483.46	23,648.82

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 50. Inputs and Costs for Producing Milo on 160-2
1955 Yield: 30 cwt 1953 Yield: 30 cwt

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 40 acres	Total cost 1953 10 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				3.25b/	6.50	143.00a/	97.50a/
Office				.76b/	1.52	31.17a/	16.73a/
Improvements				1.24b/	2.47	50.64a/	27.17a/
Power				9.22	8.00	368.80	80.00
Equipment				3.28	3.29	131.20	32.90
Irrigation water				6.43	7.26	257.20	72.60
Total overhead				24.18	29.04	982.01	326.90
Operating:							
Power:							
Tractor T-5D	1.462	1.390	1.19 hr	1.74	1.65	69.60	16.50
Tractor W-2	.841	.735	2.05 hr	1.72	1.51	68.80	15.10
Pickup 1955	.042		42.03 mi	1.77		70.80	
1953		.042	40.80 mi		1.71		17.10
Equipment:							
4' ditcher	.164	.132	.20 hr	.03	.03	1.20	.30
4' scraper	.171	.138	.20 hr	.03	.03	1.20	.30
9' offset disk	.765	.932	.99 hr	.76	.92	30.40	9.20
12' cultipacker	1.055	1.617	.35 hr	.37	.57	14.80	5.70
4 row lister planter	.949	.820	.61 hr	.58	.50	23.20	5.00
4 row cultivator	1.471	1.180	1.24 hr	1.82	1.46	72.80	14.60
Materials:							
Irrigation water	.459	.491	27.0 ac"	12.39	13.26	495.60	132.60
Seed	.08	.08	10 lbs	.80	.80	32.00	8.00
Labor:							
Driver 1955	1.00		4.29 hr	4.29		171.60	
1953		1.00	4.26 hr		4.26		42.60
Irrigators	.90	.90	11.68 hr	10.51	10.51	420.40	105.10
General	.90	.90	.31 hr	.28	.28	11.20	2.80
Soc. Sec. & Comp. Insur.				.87	.87	34.99	8.73
Contracts:							
Harvest				6.00	6.00	240.00	60.00
Haul	.10	.10	30 cwt	3.00	3.00	120.00	30.00
Storage	.144	.144	30 cwt	4.32	4.32	172.80	43.20
Insurance ($1.50 per $100.00 of value)			30 cwt	1.04	1.24	41.60	12.40
Interest on operating capital				1.32	1.34	52.84	13.38
Total operating				53.64	54.26	2,145.83	542.61
Total cost				77.82	83.30	3,127.84	869.51

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

Table 51. Inputs and Costs for Producing Potatoes on 160-2
1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 28 acres	Total cost 1953 35 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	208.00a/	260.00a/
Office				1.52	1.52	44.08a/	54.73a/
Improvements				2.47	2.47	71.64a/	88.94a/
Power				17.09	14.35	478.52	502.25
Equipment				5.47	4.54	153.16	158.90
Irrigation water				8.57	9.68	239.96	338.80
Total overhead				41.62	39.06	1,195.36	1,403.62
Operating:							
Power:							
Tractor T-5D	1.463	1.390	2.19 hr	3.20	3.04	89.60	106.40
Tractor W-2	.841	.735	5.07 hr	4.77	4.17	133.56	145.95
Pickup 1955	.042		42.00 mi	1.76		49.28	
1953		.042	40.80 mi		1.71		59.85
Equipment:							
4' ditcher	.164	.132	.10 hr	.02	.01	.56	.35
4' scraper	.171	.138	.10 hr	.02	.01	.56	.35
2 way/2-16" plow	1.325	.815	.75 hr	.99	.61	27.72	21.35
9' offset disk	.765	.932	1.34 hr	1.03	1.25	28.84	43.75
12' spiketooth	.029	.035	.90 hr	.03	.03	.84	1.05
2 row potato planter	1.953	1.563	1.28 hr	2.50	2.00	70.00	70.00
2 row cultivator	.873	.532	.90 hr	.79	.48	22.12	16.80
6' steel roller	1.191	.953	.30 hr	.36	.29	10.08	10.15
Materials:							
Irrigation water	.459	.491	36.0 ac"	16.52	17.68	462.56	618.80
Seed	6.30	6.30	16 cwt	100.80	100.80	2,822.40	3,528.00
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	840.00	1,050.00
Labor:							
Drivers 1955	1.00		6.02 hr	6.02		168.56	
1953		1.00	5.99 hr		5.99		209.65
Irrigators	.90	.90	15.58 hr	14.02	14.02	392.56	490.70
General	.90	.90	1.28 hr	1.15	1.15	32.20	40.25
Soc. Sec. & Comp. Ins.				1.23	1.23	34.41	42.95
Contracts:							
Dust (5% DDT-50% sulfur)			30 lbs	4.05	4.05	113.40	141.75
Rotobeat				3.00	3.00	84.00	105.00
Dig				12.00	12.00	336.00	420.00
Pick	.16	.16	360 cwt	57.60	57.60	1,612.80	2,016.00
Haul	.075	.075	360 cwt	27.00	27.00	756.00	945.00
Shed costs	.55	.55	290 cwt	159.50	159.50	4,466.00	5,582.50
Interest on operating capital				5.04	5.02	141.09	175.68
Total operating				453.40	452.64	12,695.14	15,842.28
Total cost				495.02	491.70	13,890.50	17,245.90

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 52. Annual Tractor and Equipment Hours, 1955 and 1953; 160-3 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa			Potatoes			Corn		All crop total	
	per acre	1955 total (55 ac.)	1953 total (100 ac.)	per acre	1955 total (45 ac.)	1953 total (25 ac.)	per acre	1955 total (17 ac.)	1953 total (20 ac.)	per acre	1955 total (25 ac.)	1955	1953
T-5D	1.64	90.20	164.00	.33	14.85	8.25	2.19	37.23	43.80	1.39	34.75	177.03	216.05
W-2	7.01	385.55	701.00	4.30	193.50	107.50	2.78	47.26	55.60	2.27	56.75	683.06	864.10
Pickup												(10,000 miles)	
4' ditcher	.25	13.75	25.00				.10	1.70	2.00	.20	5.00	20.45	27.00
4' scraper	.25	13.75	25.00				.10	1.70	2.00	.20	5.00	20.45	27.00
2w/2-16" plow	.75	41.25	75.00				.75	12.75	15.00	75	18.75	72.75	90.00
9' offset disk	.64	35.20	64.00	.33	14.85	8.25	1.34	22.78	26.80	.64	16.00	88.83	99.05
12' spiketooth harrow	.20	11.00	20.00	.14	6.30	3.50	.90	15.30	18.00			32.60	41.50
12' cultipacker	.20	11.00	20.00									11.00	20.00
4 row lister planter	.61	33.55	61.00							.63	15.75	49.30	61.00
2 row cultivator	1.00	55.00	100.00				.90	15.30	18.00			70.30	118.00
4 row cultivator	1.57	86.35	157.00							1.24	31.00	117.35	157.00
1 row cotton picker	5.56	305.80	556.00									305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00									82.50	150.00
2 row stalk cutter	.50	27.50	50.00									27.50	50.00
7' power mower				2.17	97.65	54.25						97.65	54.25
8' side delivery rake				2.03	91.35	50.75						91.35	50.75
2 row potato planter							1.28	21.76	25.60			21.76	25.60
6' steel roller							.30	5.10	6.00			5.10	6.00

Table 53. Irrigation Water Use, 1955 and 1953; for 160-3 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Corn		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	
1955	(55 acres)		(45 acres)		(17 acres)		(25 acres)		
1/1 - 4/30	6.0	330	13.6	612	22.0	374	6.0	150	1466
5/1 - 6/30	8.0	440	16.0	720	14.0	238	12.0	300	1698
7/1 - 8/31	24.0	1320	16.0	720	-	-	24.0	600	2640
9/1 - 12/31	4.0	220	12.0	540	-	-	-	-	760
Seasonal per acre	42.0	-	57.6	-	36.0	-	42.0	-	-
Seasonal per farm	-	2310	-	2592	-	612	-	1050	6564
1953	(100 acres)		(25 acres)		(20 acres)		(--------)		
1/1 - 4/30	5.0	500	13.6	340	22.0	440	-	-	1280
5/1 - 6/30	6.0	600	16.0	400	14.0	280	-	-	1280
7/1 - 8/31	24.0	2400	16.0	400	-	-	-	-	2800
9/1 - 12/31	4.0	400	12.0	300	-	-	-	-	700
Seasonal per acre	39.0	-	57.6	-	36.0	-	-	-	-
Seasonal per farm	-	3900	-	1440	-	720	-	-	6060

Table 54. Inputs and Costs to Establish an Alfalfa Stand on 160-3

Item	Unit cost		Units used	Cost per acre		Total cost	
	1955	1953	per acre	1955	1953	1955 45 acres	1953 25 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	6.490	5.408	1.31 hr	8.50	7.08	382.50	177.00
Tractor W-2	2.011	1.773	.42 hr	.84	.74	37.80	18.50
Equipment:							
9' offset disk	2.336	2.095	1.31 hr	3.06	2.74	137.70	68.50
12' spiketooth	.313	.246	.55 hr	.17	.14	7.65	3.50
Broadcaster (rented)	.25	.25	.22 hr	.06	.06	2.70	1.50
Materials:							
Irrigation water	.664	.702	8.0 ac"	5.31	5.62	238.95	140.50
Seed	.34	.34	25 lbs	8.50	8.50	382.50	212.50
Labor:							
Drivers	1.00	1.00	1.73 hr	1.73	1.73	77.85	43.25
Irrigators	.90	.90	3.46 hr	3.11	3.11	139.95	77.75
Soc. Sec. & Comp. Insur.				.28	.28	12.63	7.02
Contracts:							
Chisel 2X				5.50	5.50	247.50	137.50
Landplane 3X				12.00	12.00	540.00	300.00
Make borders				.75	.75	33.75	18.75
Dust (2% parathion)			12.5 lbs	2.14	2.14	96.30	53.50
Total cost				51.95	50.39	2,337.78	1,259.77
Amount charged off annually a/				12.99	12.60	584.45	314.95

a/ Total cost to establish stand is depreciated over four years.

Table 55. Inputs and Costs for Producing Alfalfa on 160-3

1955 Yield: 7.0 Tons 1953 Yield: 7.0 Tons

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 45 acres	1953 25 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	325.00a/	195.00a/
Office				1.52	1.52	69.93a/	39.53a/
Improvements				2.47	2.47	113.64a/	64.23a/
Power				7.55	6.01	339.75	150.25
Equipment				2.33	4.19	104.85	104.75
Irrigation water				12.79	13.88	575.55	347.00
1/4 cost to establish stand				12.99	12.60	584.45	314.94
Total overhead				46.15	47.17	2,113.17	1,215.70
Operating:							
Power:							
Tractor W-2	.805	.819	4.20 hr	3.38	3.44	152.10	86.00
Pickup 1955	.042		50.76 mi	2.13		95.85	
1953		.042	40.80 mi		1.71		42.75
Equipment:							
7' power mower	.358	.645	2.17 hr	.78	1.40	35.10	35.00
8' side delivery rake	.569	1.024	2.03 hr	1.16	2.08	52.20	52.00
Materials:							
Irrigation water	.442	.461	57.6 ac"	25.46	26.55	1,145.70	663.75
Labor:							
Drivers 1955	1.00		5.47 hr	5.47		246.15	
1953		1.00	5.22 hr		5.22		130.50
Irrigators	.90	.90	24.92 hr	22.43	22.43	1,009.35	560.75
Soc. Sec. & Comp. Insur.				1.62	1.60	72.82	40.09
Contracts:							
Bale	3.50	3.50	7.0 tons	24.50	24.50	1,102.50	612.50
Roadside	1.75	1.75	7.0 tons	12.25	12.25	551.25	306.25
Total operating				99.18	101.18	4,463.02	2,529.59
Total cost				145.33	148.35	6,576.19	3,745.29

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 56. Inputs and Costs for Producing Field Corn on 160-3

1955 Yield: 50 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 25 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50		188.50a/	
Office				1.52		39.53a/	
Improvements				2.47		64.23a/	
Power				11.79		294.75	
Equipment				3.97		99.25	
Irrigation water				9.32		233.00	
Total overhead				35.57		919.26	
Operating:							
Power:							
Tractor T-5D	1.772		1.39 hr	2.46		61.50	
Tractor W-2	.805		2.27 hr	1.83		45.75	
Pickup	.042		50.76 mi	2.13		53.25	
Equipment:							
4' ditcher	.198		.20 hr	.04		1.00	
4' scraper	.205		.20 hr	.04		1.00	
2 way/2-16" plow	1.134		.75 hr	.85		21.25	
9' offset disk	1.267		.64 hr	.81		20.25	
4 row lister planter	1.116		.63 hr	.70		17.50	
4 row cultivator	1.705		1.24 hr	2.11		52.75	
Materials:							
Irrigation water	.442		42.0 ac"	18.56		464.00	
Seed	.26		10 lbs	2.60		65.00	
Labor:							
Drivers	1.00		4.93 hr	4.93		123.25	
Irrigators	.90		18.17 hr	16.35		408.75	
General	.90		.31 hr	.28		7.00	
Soc. Sec. & Comp. Insur.				1.25		31.26	
Contracts:							
Fertilize (NH_3)			120 lbs	14.35		358.75	
Pick				10.00		250.00	
Shell	.125		50 cwt	6.25		156.25	
Haul	.10		50 cwt	5.00		125.00	
Dry	.175		50 cwt	8.75		218.75	
Storage	.144		50 cwt	7.20		180.00	
Insurance ($1.50 per $100.00 of value)			50 cwt	2.02		50.50	
Interest on operating capital				2.79		69.82	
Total operating				111.30		2,782.58	
Total cost				146.87		3,701.84	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 57. Inputs and Costs for Producing Cotton on 160-3
1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 55 acres	Total Cost 1953 100 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	390.00a/	682.50a/
Office				1.52	1.52	88.17a/	153.54a/
Improvements				2.47	2.47	143.28a/	249.51a/
Power				21.16	17.03	1,163.80	1,703.00
Equipment				43.69	25.24	2,402.95	2,524.00
Irrigation water				9.32	9.40	512.60	940.00
Total overhead				84.66	62.16	4,700.80	6,252.55
Operating:							
Power:							
Tractor T-5D	1.772	1.542	1.64 hr	2.91	2.53	160.05	253.00
Tractor W-2	.805	.819	7.01 hr	5.64	5.74	310.20	574.00
Pickup 1955	.042		101.53 mi	4.26		234.30	
1953		.042	81.630mi		3.43		343.00
Equipment:							
4' ditcher	.198	.150	.25 hr	.05	.04	2.75	4.00
4' scraper	.205	.155	.25 hr	.05	.04	2.75	4.00
2 way/2-16" plow	1.134	.917	.75 hr	.85	.69	46.75	69.00
9' offset disk	1.267	1.136	.64 hr	.81	.73	44.55	73.00
12' spiketooth harrow	.055	.044	.20 hr	.01	.01	.55	1.00
12' cultipacker	3.455	1.900	.20 hr	.69	.38	37.95	38.00
4 row lister planter	1.116	.902	.61 hr	.68	.55	37.40	55.00
2 row cultivator	.996	.593	1.00 hr	1.00	.59	55.00	59.00
4 row cultivator	1.705	1.274	2.07 hr	3.53	2.64	194.15	264.00
1 row cotton picker	4.758	2.617	5.56 hr	26.45	14.55	1,454.75	1,455.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	48.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	16.00
Materials:							
Irrigation water 1955	.442		42 ac"	18.56		1,020.80	
1953		.461	39 ac"		17.98		1,798.00
Seed (acid delint)	.115	.115	18 lb	2.07	2.07	113.85	207.00
Labor:							
Drivers 1955	1.00		12.73 hr	12.73		700.15	
1953		1.00	11.98 hr		11.98		1,198.00
Irrigator 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.08 hr	2.78	2.78	152.90	278.00
Soc. Ser. & Comp. Ins.				1.85	1.74	101.63	173.71
Contracts:							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH_3) 1955			120 lbs	14.10		775.50	
(NH_3) 1953			100 lbs		11.75		1,175.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Defoliate ($NaClO_3$ w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.5 bale	36.75		2,021.25	
1953		14.70	2.1 bale		30.87		3,087.00
Insur. & storage 1955	1.19		2.5 bale	2.98		163.90	
1953		1.19	2.1 bale		2.50		250.00
Interest on operating capital				4.10	3.55	225.27	354.52
Total operating				202.72	175.32	11,149.25	17,531.23
Total cost				287.38	237.48	15,850.05	23,783.78

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 58. Inputs and Costs for Producing Potatoes on 160-3

1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit cost 1955	Unit cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total cost 1955 17 acres	Total cost 1953 20 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	136.50a/	162.50a/
Office				1.52	1.52	27.37a/	31.93a/
Improvements				2.47	2.47	44.47a/	51.88a/
Power				16.17	13.12	274.89	262.40
Equipment				8.06	6.71	137.02	134.20
Irrigation water				7.99	8.68	135.83	173.60
Total overhead				42.71	39.00	756.08	816.51
Operating:							
Power:							
Tractor T-5D	1.772	1.542	2.19 hr	3.88	3.38	65.96	67.60
Tractor W-2	.805	.819	2.78 hr	2.24	2.24	38.08	45.60
Pickup 1955	.042		50.76 mi	2.13		36.21	
1953		.042	40.85 mi		1.72		34.40
Equipment:							
4' ditcher	.198	.150	.10 hr	.02	.02	.34	.40
4' scraper	.205	.155	.10 hr	.02	.02	.34	.40
2 way/2-16" plow	1.134	.917	.75 hr	.85	.69	14.45	13.80
9' offset disk	1.267	1.136	1.34 hr	1.70	1.52	28.90	30.40
12' spiketooth harrow	.055	.044	.90 hr	.05	.04	.85	.80
2 row cultivator	.996	.593	.90 hr	.90	.53	15.30	10.60
2 row potato planter	3.217	2.735	1.28 hr	4.12	3.50	70.04	70.00
6' steel roller	1.961	1.667	.30 hr	.59	.50	10.03	10.00
Materials:							
Irrigation water	.442	.461	36 ac"	15.91	16.60	270.47	332.00
Seed	6.30	6.30	16 cwt	100.80	100.80	1,713.60	2,016.00
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	510.00	600.00
Labor:							
Drivers 1955	1.00		6.24 hr	6.24		106.08	
1953		1.00	5.99 hr		5.99		119.80
Irrigator	.90	.90	15.58 hr	14.02	14.02	238.34	280.40
General	.90	.90	1.28 hr	1.15	1.15	19.55	23.00
Soc. Sec. & Comp. Insur.				1.24	1.23	21.08	24.60
Contracts:							
Dust (5%DDT-50% sulfur)			30 lbs	4.05	4.05	68.85	81.00
Rotobeat				3.00	3.00	51.00	60.00
Dig				12.00	12.00	204.00	240.00
Pick	.16	.16	360 cwt	57.60	57.60	979.20	1,152.00
Paul	.075	.075	360 cwt	27.00	27.00	459.00	540.00
Shed costs	.55	.55	290 cwt	159.50	159.50	2,711.50	3,190.00
Interest on operating capital				5.05	5.01	85.87	100.13
Total operating				454.06	452.15	7,719.04	9,042.93
Total cost				496.77	491.15	8,475.12	9,859.44

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 59. Crops and Land Use on Typical 320 Acre Farms, 1953-1955; 320-1, Cotton-Barley 320-2, Cotton-Alfalfa-Potatoes, 320-3, Cotton-Potatoes, in Upper San Joaquin Valley

Year	Cotton	Alfalfa Seed	Alfalfa	Potatoes	Field Corn	Barley	Milo	Idle or Fallow	Double Crop	Total Crop-land	Non Culti-vated	Total Land
1	2	3	4	5	6	7	8	9	10	11	12	13
320-1												
1953	216	--	--	--	--	50	--	34	--	300	20	320
1954	143	40	--	--	--	65	--	52	--	300	20	320
1955	119	60	--	--	--	70	--	51	--	300	20	320
Changes												
1953 to 1954	-73	+40	--	--	--	+15	--	+18	--	--	--	--
1954 to 1955	-24	+20	--	--	--	+ 5	--	- 1	--	--	--	--
1953 to 1955	-97	+60	--	--	--	+20	--	+17	--	--	--	--
320-2												
1953	216	--	60	24	--	--	--	--	--	300	20	320
1954	143	--	65	20	60	--	--	12	--	300	20	320
1955	119	--	70	22	55	--	--	34	--	300	20	320
Changes												
1953 to 1954	-73	--	+ 5	- 4	+60	--	--	+12	--	--	--	--
1954 to 1955	-24	--	+ 5	+ 2	- 5	--	--	+22	--	--	--	--
1953 to 1955	-97	--	+10	- 2	+55	--	--	+34	--	--	--	--
320-3												
1953	216	--	--	70	--	--	--	14	--	300	20	320
1954	143	--	--	50	--	103	50	4	50	300	20	320
1955	119	--	21	62	--	90	55	8	55	300	20	320
Changes												
1953 to 1954	-73	--	--	-20	--	+103	+50	-10	+50	--	--	--
1954 to 1955	-24	--	+21	+12	--	- 13	+ 5	+ 4	+ 5	--	--	--
1953 to 1955	-97	--	+21	- 8	--	+ 90	+55	- 6	+55	--	--	--

Table 60. Physical Resources and Investments for Typical 320-Acre Farms (320-1, 320-2, 320-3) in Upper San Joaquin Valley 1955 Prices a/

Item and description	Size or Capacity	Amount	New Cost Per Unit	New Cost Total	Investment Per Unit	Investment Total
1	2	3	4	5	6	7
Land:						
Total farm	320 acres					
Total cultivated	300 acres					
Improvements:						
Tenant houses	2 bedroom			$3,000.00		$ 1,500.00
Tractor shed		1		1,500.00		750.00
Shop		1		2,500.00		1,250.00
Fuel storage-gas	550 gal.	1		135.00		67.50
Fuel storage-diesel	550 gal.	1		135.00		67.50
Subtotal				7,270.00		3,635.00
Irrigation facilities:						
Pumping plant (75 HP)	1200 gpm	3	5,400.00	16,200.00	2,770.00	8,310.00
Well, casing (180' lift)	14" diam.	3x500'	7.40	11,100.00	3.70	5,550.00
Subtotal				27,300.00		13,860.00
Distribution system:						
Reservoir	5.0 ac.ft.	1		100.00		50.00
Pipe	14 in.	10,560'	.90	9,504.00	.45	4,752.00
Stands	5'-36"	5	9.00	225.00	4.50	112.50
Vents	5'-6"	10	.75	37.50	.38	18.75
Alfalfa valves	10 in.	150	15.00	2,250.00	7.50	1,125.00
Siphons	1-1/2 in.	200	1.27	254.00	.64	127.00
	2 in.	200	1.44	288.00	.72	144.00
	3 in.	50	1.90	95.00	.95	47.50
Rowpipe	2 in.	500	1.50	750.00	.75	375.00
Subtotal				13,503.50		6,751.75
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel	W-1	1		2,600.00		1,820.00
	W-2	2	3,000.00	6,000.00	2,100.00	4,200.00
Subtotal				15,600.00		9,870.00
Transportation:						
Pickup	3/4 ton	1		2,300.00		1,380.00
Truck	1 1/2 ton	1		2,800.00		1,470.00
Subtotal				5,100.00		2,850.00
Equipment:						
Ditcher	5 ft.	1		140.00		70.00
Scraper	10 ft.	1		520.00		260.00
Plow, 2 way	2-16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	7'	1		550.00		275.00

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Table 60 continued.

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Equipment (continued):						
Disk, offset	10 1/2'	1		900.00		450.00
Border disk		1		175.00		87.50
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	12'	1		380.00		190.00
Lister	4 row	1		350.00		175.00
Lister planter	4 row	1		550.00		275.00
Cultivator	2 row	2	350.00	700.00	175.00	350.00
Cultivator	4 row	1		1,000.00		500.00
Fertilizer attachment	4 row	1		100.00		50.00
Cotton picker	1 row	1		8,700.00		5,220.00
Cotton trailer	4 bale	2	350.00	700.00	192.50	385.00
Cotton trailer	6 bale	3	450.00	1,350.00	247.33	742.00
Stalk cutter	2 row	1		325.00		167.50
Broadcaster		1		250.00		125.00
Additional equipment:						
320-1 only						
Springtooth harrow	12'	1		240.00		120.00
320-2 & 320-3 only						
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Potato planter	2 row	1		700.00		350.00
Steel roller	6'	1		200.00		100.00
Equipment 320-1				18,095.00		10,024.50
Equipment 320-2				19,625.00		10,789.50
Equipment 320-3				19,625.00		10,789.50
Total 320-1				86,868.50		46,991.25
Total 320-2				88,398.50		47,756.25
Total 320-3				88,398.50		47,756.25

a/ The designations 320-1, 320-2, 320-3 refer to three variations found in the 320 acre size group.

Table 61. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
2/1 - 3/15	Disk 2X	1	T-5D	$10\frac{1}{2}$' offset disk	30	.60	.60	
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	$10\frac{1}{2}$' offset disk	30	.30	.30	
	Pre-irrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	$10\frac{1}{2}$' offset W/12' spike	28	.32	.32	
	Seed	1	W-1	Broadcaster	40	.22	.22	25# seed
	Harrow	1	W-2	12' Spiketooth harrow	45	.20	.20	
	Dust - contract							12.5# 2% parathion

Table 62. Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa on 320 Acre Farms

Dates	Operations	Crew & Equipment			Acres per	Physical requirements		
		Men	Power	Equipment	9-hour day	Man-hours	Tractor hours	Material
	Irrigation							5.6 ac. in.
4/5 - 4/15	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
5/5 - 5/15	Cut 2nd*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
6/5 - 6/15	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
7/5 - 7/15	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
8/5 - 8/15	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
9/5 - 9/15	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
10/5 - 10/15	Cut 7th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate							4 ac. in.

* No cutting for first year of stand

Table 63. Calendar of Operations & Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	10½' offset disk	30	.60	.60	
	Chisel	1	T-5D	8' chisel	16	.56	.56	
	Disk	1	T-5D	10½' offset disk	30	.30	.30	
	Landplane 2X - contract							
	Furrow out	1	W-2	4 row lister	36	.25	.25	
	Make head ditches	1	T-5D	5' ditcher		.05	.05	
	Preirrigate							8 ac. in.
	Fill in ditches	1	T-5D	10' scraper		.05	.05	
	Disk	1	T-5D	10½' offset disk	30	.30	.30	
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
2/1 - 2/20	Plant	2	W-2	4 row lister planter	29	.62	.31	1½# seed
3/1 - 3/20	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - Contract							12½# 2% parathion

Table 64. Calendar of Operations & Physical Inputs Per Acre for Producing Alfalfa Seed on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Materials
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
5/1 - 5/10	Fertilize - contract							300# super phosphate
	Bees - contract							3 colonies
4/20 - 5/10	Irrigate	1						10 ac. in.
5/10 - 5/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
6/1 - 6/10	Irrigate	1						10 ac. in.
	Dust 2X - contract							60# 5% DDT-75%S
6/10 - 6/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
6/10 - 6/20	Weed - contract							
7/1 - 7/10	Irrigate	1						10 ac. in.
7/10 - 7/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
8/15 - 8/25	Defoliate - contract							1 qt. Sinox in 10 gal. Diesel Oil
8/20 - 8/30	Harvest - contract							
9/1 - 9/10	Disk	1	W-2	7' offset disk	24	.38	.38	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth	45	.40	.40	

Table 65. Calendar of Operations & Physical Inputs Per Acre for Producing Barley on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (Harrow on 2nd time)	1	T-5D	$10\frac{1}{2}$' offset w/12' spike	28	.64	.64	
12/20 - 1/20	Seed	1	W-1	Broadcaster	40	.22	.22	80# seed
12/20 - 1/20	Harrow	1	W-1	12' Spiketooth harrow	40	.22	.22	
12/22 - 1/22	Border up	1	W-2	Border disk	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						14.4 ac. in.
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							

Table 66. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	$10\frac{1}{2}$' offset disk	30	.30	.30	
	Furrow out	1	W-1	4 row lister	34	.26	.26	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate							6 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.20	.20	
3/20 - 4/15	Plant	2	W-2	4 row lister planter	29	.62	.31	10# seed
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Irrigate							4 ac. in.
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate and Fertilize	1	W-2	4 row cultivator w/4 row fertilizer attachment	20	.45	.45	475# NH_4SO_4
	Irrigate 2X							8 ac. in.
	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
	Irrigate 6X							24 ac. in.
9/20 - 10/15	Pick & Haul - contract							
	Shell - contract							

* occurs 4X - man-hours and tractor-hours are total for season

Table 67. Calendar of Operations & Physical Inputs Per Acre for Producing Cotton on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	Cut stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	10½' offset disk	30	.60	.60		
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12		
	Disk	1	T-5D	10½' offset disk	30	.30	.30		
	Fertilize - contract							55# NH_3	70# NH_3
	Furrow out	1	W-2	4 row lister	36	.25	.25		
	Make head ditches*	1	T-5D	5' ditcher		.25	.25		
	Preirrigate	1						5 ac.in.	6 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.25	.25		
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20		
4/1 - 4/15	Plant	2	W-2	4 row lister planter	29	.62	.31	18# acid delinted seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - contract								
4/25 - 5/5	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41		
	Cultivate & Fertilize (3)	1	W-2	4 row cultivator w/4 row fertilizer attachment	22	.41	.41	225# NH_4SO_4	275# NH_4SO_4
5/20 - 6/10	Irrigate (1)	1						3 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-2	4 row cultivator	28	.32	.32		
	Irrigate (2)	1						3 ac.in.	4 ac.in.
	Cultivate (5)	1	W-2	4 row cultivator	28	.32	.32		
6/15 - 8/15	Dust 2X - contract							60# 5% DDT - 50% S	
	Irrigate (3)	1						4 ac.in.	4 ac.in.
7/1 - 7/15	Cultivate & lay by (6)	1	W-2	4 row cultivator	28	.32	.32		
7/1 - 9/15	Irrigate 6X (4-9)	1						24 ac.in.	24 ac.in.
9/5 - 9/20	Defoliate - contract							10# of $NaClO_3$ w/Borate or Mg.	
9/15 - on	Pick 1st - machine	2	W-2	1 row cotton picker	6	3.00	1.50		
11/15 - on	Pick 2nd - machine	2	W-2	1 row cotton picker	7	2.56	1.28		
9/15 - on	Haul to gin	1	Pick-up	6 bale cotton trailer	6	1.50	1.50		
	Gin - contract								

* occurs 5X - man-hours and tractor-hours are total for season

Table 68. Calendar of Operations & Physical Inputs Per Acre for Producing Milo on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	$10\frac{1}{2}$' offset disk	30	.60	.60	
	Furrow out	1	W-2	4 row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.20	.20	
	Disk w/cultipacker attached	1	T-5D	$10\frac{1}{2}$' offset w/12' cultipacker	28	.32	.32	
6/15 - 7/15	Plant	2	W-2	4 row lister-planter	30	.60	.30	10# seed
	Irrigate							5 ac. in.
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
	Irrigate	1						4 ac. in.
7/15 - 8/15	Cultivate	1	W-2	4 row cultivator	28	.32	.32	
7/25 - 9/15	Irrigate 3X	1						12 ac. in.
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

* occurs 4X - man-hours and tractor-hours are total for seasons

Table 69. Calendar of Operations & Physical Inputs Per Acre for Producing Potatoes on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	Disk 2X	1	T-5D	$10\frac{1}{2}$' offset disk	30	.60	.60	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X	1	T-5D	$10\frac{1}{2}$' offset disk	30	.60	.60	
	Chisel	1	T-5D	8' chisel	16	.56	.56	
1/5 - 2/15	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	16 cwt. 800# 17-7-0
	Harrow beds	1	W-2	12' harrow	45	.20	.20	
	Cultivate & Furrow out	1	W-2	2 row cultivator	20	.45	.45	
	Make head ditches*	1	T-5D	5' ditcher		.10	.10	
2/20 - 2/30	Irrigate	1						6 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.10	.10	
	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	
3/20 - 6/1	Irrigate continuous	1						30 ac. in.
5/5 - 6/5	Dust - contract							30# 5%DDT 50% S
	Roll	1	W-2	6' steel roller	30	.30	.30	
	Rotobeat - contract							
5/20 - 6/20	Dig - contract							
5/20 - 6/20	Pick - contract							
	Haul - contract							

* occurs 2X - man-hours and tractor-hours are total for season

Table 70. Annual Tractor and Equipment Hours, 1955 and 1953; 320-1 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa Seed		Barley			All crop total	
	per acre	1955 total (119 acres)	1953 total (216 acres)	per acre	1955 total (60 acres)	per acre	1955 total (70 acres)	1953 total (50 acres)	1955	1953
T-5D	2.24	266.56	483.84	.62	37.20	.64	44.80	32.00	348.56	515.84
W-2	4.62	549.78	998.16	2.62	157.20	.22	15.40	11.00	722.38	1009.16
W-1	1.39	165.41	300.00			.44	30.80	22.00	196.21	322.00
Pickup 3/4 ton									(12,000 miles)	
Truck 1½ ton									(5,000 miles)	
5' ditcher	.25	29.75	54.00	.02	1.20				30.95	54.00
10' scraper	.25	29.75	54.00	.02	1.20				30.95	54.00
8' chisel	1.12	133.28	241.92	.19	11.40				144.68	241.92
7' offset disk	.28	33.32	6.00	.38	22.80				56.12	60.00
10½' offset disk	.62	73.78	134.40	.40	24.00	.64	44.80	32.00	142.58	166.40
Border disk						.22	15.40	11.00	15.40	11.00
12' spiketooth harrow	.20	23.80	43.20	.53	31.80	.86	60.20	43.00	115.80	86.20
12' springtooth harrow	-	-	-	.40	24.00				24.00	-
12' cultipacker	.20	23.80	43.20						23.80	43.20
4 row lister	.25	29.75	54.00	.08	4.80				34.55	54.00
4 row lister planter	.31	36.89	66.96	.10	6.00				42.89	66.96
4 row cultivator	1.77	210.63	381.68	1.52	91.20				301.83	381.68
4 row fertilizer attachment	.41	48.79	88.56						48.79	88.56
1 row cotton picker	2.78	330.82	600.48						330.82	600.48
6 bale cotton trailer	.90	107.10	194.40						107.10	194.40
2 row stalk cutter	.50	59.50	108.00						59.50	108.00
Broadcaster						.22	15.40	11.00	15.40	11.00

Table 7A. Annual Expense and Equipment Costs, 1955 and 1959: 300-1 Farms in [illegible] (Illinois)

Item	1955 total (110 acres)	1955 per acre	1957 total (240 acres)	1957 per acre	1959 total (40 acres)	1959 per acre	1959 total (70 acres)	1959 per acre	1959 total (30 acres)	1959 per acre
T-20	2,[illegible]	[illegible]	[illegible]	[illegible]	37.20	.64	44.80	[illegible]	[illegible]	[illegible]
W-4	4,[illegible]	[illegible]	[illegible]	[illegible]	157.20	2.64	15.40	.21	11.[illegible]	[illegible]
W-1	1,[illegible]	[illegible]	[illegible]	[illegible]			70.80	.14	[illegible]	[illegible]
Farm 2/4 tim										(12,000 miles)
Truck 1/2 ton										(5,000 miles)
8' disker	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.05	[illegible]
10' harrow	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.05	[illegible]
4' cultivator	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	144.05	[illegible]
7' rotary hoe	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56.12	[illegible]
8x8' cultivator drag	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	142.50	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.60	[illegible]
32' spring-tooth harrow	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	117.80	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6 row listers	[illegible]	[illegible]	[illegible]	[illegible]	4.60	[illegible]	[illegible]	[illegible]	34.55	[illegible]
4 row listing planter	[illegible]	[illegible]	[illegible]	[illegible]	6.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6 row cultivators	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4 row fertilizer attachment	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.70	[illegible]
2 row corn picker	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6 bale corn binder	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2 row stalk cutter	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Spreader	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 71. Irrigation Water Use, 1955 and 1953; for 320-1 Farms in Upper San Joaquin Valley

Year and Period	Cotton		Alfalfa Seed		Barley		All crop total
	per acre	total	per acre	total	per acre	total	
1955	(119 acres)		(60 acres)		(70 acres)		
1/1 - 4/30	6.0	714	10.0	600	14.4	1008	2322
5/1 - 6/30	8.0	952	10.0	600	-	-	1552
7/1 - 8/31	24.0	2856	10.0	600	-	-	3456
9/1 - 12/31	4.0	476	-	-	-	-	476
Seasonal per acre	42.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	4998	-	1800	-	1008	7806
1953	(216 acres)		(--------)		(50 acres)		
1/1 - 4/30	5.0	1080	-	-	14.4	720	1800
5/1 - 6/30	6.0	1296	-	-	-	-	1296
7/1 - 8/31	24.0	5184	-	-	-	-	5184
9/1 - 12/31	4.0	864	-	-	-	-	864
Seasonal per acre	39.0	-	-	-	14.4	-	-
Seasonal per farm	-	8424	-	-	-	720	9144

Table 72. Cost of Inputs to Establish an Alfalfa Seed Stand on 320-1

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 60 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	3.542		1.86 hr	6.59		395.40	
Tractor W-2	2.018		.96	1.94		116.40	
Equipment:							
5' ditcher	.709		.05 hr	.04		2.40	
10' scraper	2.632		.05 hr	.13		7.80	
8' chisel	.822		.05 hr	.46		27.60	
10½' offset disk	1.746		1.20 hr	2.10		126.00	
12' spiketooth harrow	.088		.40	.04		2.40	
4 row lister	2.803		.25 hr	.70		42.00	
4 row lister planter	2.907		.31 hr	.90		54.00	
Materials:							
Irrigation water	1.016		8 ac"	8.13		487.80	
Seed	.40		1.5 lbs	.60		36.00	
Labor:							
Drivers	1.00		2.82 hr	2.82		169.20	
Irrigator	.90		2.00 hr	1.80		108.00	
General	.90		.31 hr	.28		16.80	
Soc. Sec. & Comp. Insur.				.28		17.05	
Contracts							
Landplane 2X				8.00		480.00	
Dust (2% Parathion)			12.5 lbs	2.14		128.40	
Total cost				36.95		2,217.25	
Amount charged off annually a/				12.32		739.08	

a/ Total cost to establish stand is depreciated over three years.

[illegible]

a/ Total cost to establish stand is another real cost that [illegible].

Table 73. Inputs and Costs for Producing Alfalfa Seed on 320-1
1955 Yield: 550 lbs.

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 60 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead							
Real estate taxes				6.50		539.50a/	
Office				1.00		73.00a/	
Improvements				1.94		141.64a/	
Power				6.81		408.60	
Equipment				1.48		88.80	
Irrigation water				11.07		664.20	
1/3 cost to establish stand				12.32		739.08	
Total overhead				41.12		2654.82	
Operating:							
Power:							
Tractor W-2	.877		2.30 hr	2.02		121.20	
Pickup	.039		32.60 mi	1.27		76.20	
Truck	.057		20.08 mi	1.14		68.40	
Equipment:							
7' offset disk	1.471		.38 hr	.56		33.60	
12' springtooth harrow	.300		.40 hr	.12		7.20	
4 row cultivator	.662		1.52 hr	1.01		60.60	
Materials:							
Irrigation water	.647		30 ac"	19.41		1,164.60	
Labor:							
Drivers	1.00		3.79 hr	3.79		227.40	
Irrigator	.90		7.50 hr	6.75		405.00	
Soc. Sec. & Comp. Insur.				.61		36.68	
Contracts:							
Fertilize (single super phosphate)			300 lbs	7.10		426.00	
Bees (colonies)	5.00		3	15.00		900.00	
Dust (5%DDT-75% Sulfur)			60 lbs	7.95		477.00	
Weed				15.00		900.00	
Defoliate (Sinox)			1 qt.	5.40		324.00	
Harvest	.03		550 lbs	16.50		990.00	
Certification Fees (sacks, cleaning, inspection)				10.12		607.20	
Box rental				1.00		60.00	
Interest on operating capital				2.77		166.44	
Total operating				117.52		7,051.52	
Total cost				158.64		9,706.34	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 74. Inputs and Costs for Producing Barley on 320-1
1955 Yield: 25 cwt 1953 Yield: 21 cwt

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 70 acres	Total Cost 1953 50 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	611.00a/	500.50a/
Office					1.00	1.00	83.00a/	67.00a/
Improvements					1.94	1.94	161.04a/	130.00a/
Power					7.88	7.47	551.60	373.50
Equipment					3.51	4.64	245.70	232.00
Irrigation water					5.31	4.54	371.70	227.00
Total overhead					26.14	26.09	2024.04	1530.00
Operating:								
Power:								
Tractor T-5D		1.146	.937	.64 hr	.73	.60	51.10	30.00
Tractor W-2		.877	.799	.22 hr	.19	.18	13.30	9.00
Tractor W-1		.706	.586	.44 hr	.31	.26	21.70	13.00
Pickup	1955	.039		32.614 mi	1.27		88.90	
	1953		.039	24.90 mi		.97		48.50
Truck	1955	.057		20.08 mi	1.14		79.80	
	1953		.057	18.797 mi		1.07		53.50
Equipment:								
10½' offset disk		.946	.811	.64 hr	.61	.52	42.70	26.00
Border disk		1.136	1.591	.22 hr	.25	.35	17.50	17.50
12' spiketooth harrow		.015	.021	.86 hr	.01	.02	.70	1.00
Broadcaster		.812	1.136	.22 hr	.18	.25	12.60	12.50
Materials:								
Irrigation water		.647	.596	14.4 ac"	9.32	8.58	652.40	429.00
Seed		.04	.04	80 lbs	3.20	3.20	224.00	160.00
Labor:								
Drivers	1955	1.00		2.79 hr	2.79		195.30	
	1953		1.00	2.55 hr		2.55		127.50
Irrigator		.90	.90	3.60 hr	3.24	3.24	226.80	162.00
Soc. Sec. & Comp. Insur.					.35	.34	24.48	16.79
Contracts:								
Harvest					5.00	5.00	350.00	250.00
Haul	1955	.10		25 cwt	2.50		175.00	
	1953		.10	21 cwt		2.10		105.00
Storage	1955	.144		25 cwt	3.60		252.00	
	1953		.144	21 cwt		3.02		151.00
Insurance ($1.50 per $100.00 of value					.81	.85	56.44	42.52
Interest on operating capital					.82	.76	57.24	38.18
Total operating					36.32	33.86	2,541.96	1,692.99
Total cost					62.46	59.95	4,566.00	3,222.99

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 75. Inputs and Costs for Producing Cotton on 320-1
1955 Yield: 1.8 Bales 1953 Yield: 1.5 Bales

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	929.50a/	1,579.50a/
Office					1.00	1.00	144.00a/	233.00a/
Improvements					1.94	1.94	279.40a/	452.08a/
Power					19.92	13.99	2,370.48	3,021.84
Equipment					23.28	13.28	2,770.32	2,868.48
Irrigation water					15.50	12.28	1,844.50	2,652.48
Total overhead					68.14	48.99	8,338.20	10,807.38
Operating:								
Power:								
Tractor T-5D		1.146	.937	2.24 hr	2.57	2.10	305.83	453.60
Tractor W-2		.877	.799	6.01 hr	5.27	4.80	627.13	1,036.80
Pickup	1955	.039		65.218 mi	2.54		302.26	
	1953		.039	49.792 mi		1.94		419.04
Truck	1955	.057		20.080 mi	1.14		135.66	
	1953		.057	18.797 mi		1.07		231.12
Equipment:								
5' ditcher		.136	.078	.25 hr	.03	.02	3.57	4.32
10' scraper		.504	.289	.25 hr	.13	.07	15.47	15.12
8' chisel		.363	.217	1.12 hr	.41	.24	48.79	51.84
10½' offset disk		.946	.811	.62 hr	.59	.50	70.21	108.00
12' spiketooth harrow		.015	.021	.20 hr			.36	.86
12' cultipacker		1.598	.880	.20 hr	.32	.18	38.08	38.88
4 row lister		1.520	.972	.25 hr	.38	.24	45.22	51.84
4 row lister planter		1.283	.822	.31 hr	.40	.25	47.60	54.00
4 row cultivator		.662	.524	1.77 hr	1.17	.93	139.23	200.88
4 row fertilizer attachment		.615	.339	.41 hr	.25	.14	29.75	30.24
1 row cotton picker		4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer		.379	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter		.274	.150	.50 hr	.14	.08	16.66	17.28
Materials:								
Irrigation water	1955	.647		42 ac"	27.17		3,233.23	
	1953		.596	39 ac"		23.24		5,019.84
Seed (acid delint)		.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH_4SO_4)	1955	.032		275 lbs	8.80		1,047.20	
(NH_4SO_4)	1953		.032	225 lbs		7.20		1,555.20
Labor:								
Drivers	1955	1.00		11.87 hr	11.87		1,412.53	
	1953		1.00	11.98 hr		11.98		2,587.68
Irrigators	1955	.90		10.50 hr	9.45		1,124.55	
	1953		.90	9.75 hr		8.78		1,896.48
General		.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.					1.25	1.22	149.08	263.59

(Continued on next page.)

Table 75 continued.

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per acre 1955	Cost per acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acres
1		2	3	4	5	6	7	8
Contracts								
Fertilize (NH_3)	1955			70 lbs	8.60		1,023.40	
(NH_3)	1953			55 lbs		7.03		1,518.48
Hand thin					5.00	5.00	595.00	1,080.00
Hand weed					5.00	5.00	595.00	1,080.00
Dust 2X (5%DDT-50% Sulfur)				60 lbs	8.04	8.04	956.76	1,736.64
Defoliate ($NaClO_3$ w/Borate or Mg.)				10 lbs	4.25	4.25	505.75	918.00
Gin	1955	14.70		1.8 bale	26.46		3,148.74	
	1953		14.70	1.5 bale		22.05		4,762.80
Insur. & Storage	1955	1.19		1.8 bale	2.14		254.66	
	1953		1.19	1.5 bale		1.79		386.64
Interest on operating capital					2.75	2.33	327.15	504.33
Total operating					151.04	129.75	17,974.35	28,027.98
Total cost					219.18	178.74	26,312.55	38,835.36

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 76. Annual Tractor and Equipment Hours, 1955 and 1953; 320-2 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa			Potatoes			Corn		All crop total	
	per acre	1955 total (119 ac.)	1953 total (216 ac.)	per acre	1955 total (70 ac.)	1953 total (60 ac.)	per acre	1955 total (22 ac.)	1953 total (24 ac.)	per acre	1955 total (55 ac.)	1955	1953
T-5D	2.24	266.56	483.84	.57	39.90	34.20	2.71	59.62	65.04	1.45	79.75	445.83	583.08
W-2	4.62	549.78	998.16	.50	35.00	30.00	2.68	58.96	64.32	2.04	112.20	755.94	1092.48
W-1	1.39	165.41	300.00	4.70	329.00	282.00				.26	14.30	508.71	582.00
Pickup 3/4 ton												(12,000 miles)	
Truck 1½ ton												(5,000 miles)	
5' ditcher	.25	29.75	54.00				.10	2.20	2.40	.20	11.00	42.95	56.40
10' scraper	.25	29.75	54.00				.10	2.20	2.40	.20	11.00	42.95	56.40
2 way/2-16" plow							.75	16.50	18.00	.75	41.25	57.75	18.00
8' chisel	1.12	133.28	241.92	.28	19.60	16.80	.56	12.32	13.44			165.20	272.16
10½' offset disk	.62	73.78	134.40	.30	21.00	18.00	1.20	26.40	28.80	.30	16.50	137.68	181.20
12' spiketooth harrow	.20	23.80	43.20	.13	9.10	7.80	.20	4.40	4.80			37.30	55.80
12' cultipacker	.20	23.80	43.20									23.80	43.20
4 row lister	.25	29.75	54.00							.26	14.30	44.05	54.00
4 row lister planter	.31	36.89	66.96							.31	17.05	53.94	66.96
2 row cultivator	.93	110.67	200.00				.90	19.80	21.60			130.47	221.60
4 row cultivator	1.77	210.63	381.68							1.73	95.15	305.78	381.68
4 row fertilizer attachment	.41	48.79	88.56							.45	24.75	73.54	88.56
1 row cotton picker	2.78	330.82	600.48									330.82	600.48
6 bale cotton trailer	.90	107.10	194.40									107.10	194.40
2 row stalk cutter	.50	59.50	108.00									59.50	108.00
7' power mower				2.17	151.90	130.20						151.90	130.20
8' side delivery rake				2.03	142.10	121.80						142.10	121.80
Broadcaster				.50	35.00	30.00						35.00	30.00
2 row potato planter							1.28	28.16	30.72			28.16	30.72
6' steel roller							.30	6.60	7.20			6.60	7.20

Table 77. Irrigation Water Use, 1955 and 1953; for 320-2 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Corn		All crop
	per acre	total	per acre	total	per acre	total	per acre	total	total
1955	(119 acres)		(70 acres)		(22 acres)		(55 acres)		
1/1 - 4/30	6.0	714	13.6	952	22.0	484	6.0	330	2480
5/1 - 6/30	8.0	952	16.0	1120	14.0	308	12.0	660	3040
7/1 - 8/31	24.0	2856	16.0	1120	-	-	24.0	1320	5296
9/1 - 12/31	4.0	476	12.0	840	-	-	-	-	1316
Seasonal per acre	42.0	-	57.6	-	36.0	-	42.0	-	-
Seasonal per farm	-	4998	-	4032	-	792	-	2310	12,132
1953	(216 acres)		(60 acres)		(24 acres)		(--------)		
1/1 - 4/30	5.0	1080	13.6	816	22.0	528	-	-	2424
5/1 - 6/30	6.0	1296	16.0	960	14.0	336	-	-	2592
7/1 - 8/31	24.0	5184	16.0	960	-	-	-	-	6144
9/1 - 12/31	4.0	864	12.0	720	-	-	-	-	1584
Seasonal per acre	39.0	-	57.6	-	36.0	-	-	-	-
Seasonal per farm	-	8424	-	3456	-	864	-	-	12,744

Table 78. Cost of Inputs to Establish an Alfalfa Stand on 320-2

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 70 acres	Total Cost 1953 60 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	2.878	2.318	2.34 hr	6.73	5.42	471.10	325.20
Tractor W-2	1.955	1.656	.20 hr	.39	.33	27.30	19.80
Tractor W-1	1.269	1.160	.22 hr	.28	.26	19.60	15.60
Equipment:							
8' chisel	.720	.437	1.12 hr	.81	.49	56.70	29.40
10½' offset disk	1.808	1.374	1.22 hr	2.21	1.68	154.70	100.80
12' spiketooth harrow	.273	.183	.52 hr	.14	.10	9.80	6.00
Broadcaster	1.262	1.472	.22 hr	.28	.32	19.60	19.20
Materials:							
Irrigation water	.760	.738	8 ac"	6.08	5.90	425.60	354.00
Seed	.34	.34	25 lbs	8.50	8.50	595.00	510.00
Labor:							
Drivers	1.00	1.00	2.76 hr	2.76	2.76	193.20	165.60
Irrigator	.90	.90	1.00 hr	.90	.90	63.00	54.00
Soc. Sec. & Comp. Insur.				.21	.21	14.86	12.74
Contracts:							
Landplane 3X				12.00	12.00	840.00	720.00
Make borders				.75	.75	52.50	45.00
Dust (2% Parathion)			12.5 lbs	2.14	2.14	149.80	128.40
Total cost				44.18	41.76	3,092.76	2,505.74
Amount charged off annually a/				11.05	10.44	773.19	626.44

a/ Total cost to establish stand is depreciated over four years.

Table 79. Inputs and Costs for Producing Alfalfa on 320-2
1955 Yield: 7.0 Tons 1953 Yield: 7.0 Tons

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 70 acres	Total Cost 1953 60 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	546.00a/	435.50a/
Office					1.00	1.00	76.00a/	60.00a/
Improvements					1.94	1.94	147.46a/	116.42a/
Power					7.08	6.41	495.60	384.60
Equipment					4.32	5.04	302.40	302.40
Irrigation water					13.65	13.02	955.50	781.20
¼ cost to establish stand					11.05	10.44	773.19	626.44
Total overhead					45.54	44.35	3,296.15	2,706.56
Operating:								
Power:								
Tractor W-1		.567	.546	4.20 hr	2.38	2.29	166.60	137.40
Pickup	1955	.039		31.171 mi	1.22		85.40	
	1953		.039	23.25 mi		.91		54.60
Truck	1955	.057		18.797 mi	1.07		74.90	
	1953		.057	16.667 mi		.95		57.00
Equipment:								
7' power mower		.230	.269	2.17 hr	.50	.58	35.00	34.80
8' side delivery rake		.365	.427	2.03 hr	.74	.87	51.80	52.20
Materials:								
Irrigation water		.523	.512	57.6 ac"	30.12	29.49	2,108.40	1,769.40
Labor:								
Drivers	1955	1.00		5.61 hr	5.61		392.70	
	1953		1.00	5.34 hr		5.34		320.40
Irrigator		.90	.90	7.20 hr	6.48	6.48	453.60	388.80
Soc. Sec. & Comp. Insur.					.70	.69	49.08	41.13
Contracts:								
Bale		3.50	3.50	7.0 tons	24.50	24.50	1,715.00	1,470.00
Roadside		1.75	1.75	7.0 tons	12.25	12.25	857.50	735.00
Total operating					85.57	84.35	5,989.98	5,060.73
Total cost					131.11	128.70	9,286.13	7,767.29

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 80. Inputs and Costs for Producing Field Corn on 320-2
1955 Yield: 50 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 55 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50		442.00a/	
Office				1.00		61.00a/	
Improvements				1.94		118.35a/	
Power				9.59		527.45	
Equipment				6.37		350.35	
Irrigation water				9.95		547.25	
Total overhead				35.35		2,046.40	
Operating:							
Power:							
Tractor T-5D	1.004		1.45 hr	1.46		80.30	
Tractor W-2	.865		2.04 hr	1.76		96.80	
Tractor W-1	.567		.26 hr	.15		8.25	
Pickup	.039		31.164 mi	1.22		67.10	
Truck	.057		18.797 mi	1.07		58.85	
Equipment:							
5' ditcher	.098		.20 hr	.02		1.10	
10' scraper	.363		.20 hr	.07		3.85	
2 way/2-16" plow	1.156		.75 hr	.87		47.85	
10½' offset disk	.980		.30 hr	.29		15.95	
4 row lister	1.192		.26 hr	.31		17.05	
4 row lister planter	1.019		.31 hr	.32		17.60	
4 row cultivator	.654		1.73 hr	1.13		62.15	
4 row fertilizer attachment	.408		.45 hr	.18		9.90	
Materials:							
Irrigation water	.523		42 ac"	21.97		1,208.35	
Seed	.26		10 lbs	2.60		143.00	
Fertilizer (NH_4SO_4)	.032		475 lbs	15.20		836.00	
Labor:							
Drivers	1.00		5.16 hr	5.16		283.80	
Irrigator	.90		5.25 hr	4.72		259.60	
General	.90		.31 hr	.28		15.40	
Soc. Sec. & Comp. Insur.				.59		32.45	
Contracts:							
Shell	.125		50 cwt	6.25		343.75	
Pick				10.00		550.00	
Haul	.10		50 cwt	5.00		275.00	
Interest on operating capital				2.02		110.85	
Total operating capital				82.64		4,544.95	
Total cost				117.99		6,591.35	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 81. Inputs and Costs for Producing Cotton on 320-2
1955 Yield: 2.25 Bales 1953 Yield: 2.0 Bales

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acres
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	864.50a/	1,449.50a/
Office					1.00	1.00	136.00a/	216.00a/
Improvements					1.94	1.94	263.88a/	419.10a/
Power					16.12	11.73	1,918.28	2,533.68
Equipment					14.76	13.38	1,756.44	2,890.08
Irrigation water					9.95	8.81	1,184.05	1,902.96
Total overhead					50.27	43.36	6,123.15	9,411.32
Operating:								
Power								
Tractor T-5D		1.004	.886	2.24 hr	2.25	1.98	267.75	427.68
Tractor W-2		.865	.902	6.01 hr	5.20	5.42	618.80	1,170.72
Pickup	1955	.039		62.336 mi	2.43		289.17	
	1953		.039	46.514 mi		1.81		390.96
Truck	1955	.057		18.797 mi	1.07		127.33	
	1953		.057	16.667 mi		.95		205.20
Equipment:								
5' ditcher		.098	.075	.25 hr	.02	.02	2.38	4.32
10' scraper		.363	.276	.25 hr	.09	.07	10.71	15.12
8' chisel		.318	.193	1.12 hr	.36	.22	42.84	47.52
10 1/2' offset disk		.980	.745	.62 hr	.61	.46	72.59	99.36
12' spiketooth harrow		.048	.033	.20 hr	.01	.01	1.19	2.16
12' cultipacker		1.597	.880	.20 hr	.32	.18	38.08	38.88
4 row lister		1.192	.972	.25 hr	.30	.24	35.70	51.84
4 row lister planter		1.019	.822	.31 hr	.32	.25	38.08	54.00
4 row cultivator		.654	.524	1.77 hr	1.16	.93	138.04	200.88
4 row fertilizer attachment		.408	.339	.41 hr	.17	.14	20.23	30.24
1 row cotton picker		4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer		.378	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter		.273	.150	.50 hr	.14	.08	16.66	17.28
Materials:								
Irrigation water	1955	.523		42 ac"	21.97		2,614.43	
	1953		.512	39 ac"		19.97		4,313.52
Seed (acid delint)		.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH_4SO_4)	1955	.032		275 lbs	8.80		1,047.20	
(NH_4SO_4)	1953		.032	225 lbs		7.20		1,555.20
Labor:								
Drivers	1955	1.00		11.69 hr	11.69		1,391.11	
	1953		1.00	11.26 hr		11.26		2,432.16
Irrigator	1955	.90		5.25 hr	4.72		561.68	
	1953		.90	4.875 hr		4.39		948.24
General		.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.					.97	.92	115.19	199.57

(Continued on next page.)

Table 81 continued.

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acres
1	2	3	4	5	6	7	8
Contracts:							
Fertilize (NH_3) 1955			70 lbs	8.60		1,023.40	
(NH_3) 1953			55 lbs		7.03		1,518.48
Hand thin				5.00	5.00	595.00	1,080.00
Hand weed				5.00	5.00	595.00	1,080.00
Dust 2X (5% DDT-50% Sulfur)			60 lbs	8.04	8.04	956.76	1,736.64
Defoliate ($NaClO_3$ w/Borate or Mg.)			10 lbs	4.25	4.25	505.75	918.00
Gin 1955	14.70		2.25 bale	33.08		3,936.52	
1953		14.70	2.0 bale		29.40		6,350.40
Insur. & storage 1955	1.19		2.25 bale	2.68		318.92	
1953		1.19	2.0 bale		2.38		514.08
Interest on operating capital				2.69	2.16	320.70	465.61
Total operating				146.86	129.04	17,476.69	27,872.54
Total cost				197.13	172.40	23,599.84	37,283.86

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 82. Inputs and Costs for Producing Potatoes on 320-2
1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 22 acres	Total Cost 1953 24 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	227.50a/	195.00a/
Office				1.00	1.00	27.00a/	24.00a/
Improvements				1.94	1.94	52.39a/	46.56a/
Power				14.89	11.94	327.58	286.56
Equipment				15.51	15.82	341.22	379.68
Irrigation water				8.53	8.14	187.66	195.36
Total overhead				48.37	45.34	1,163.35	1,127.16
Operating:							
Power:							
Tractor T-5D	1.004	.886	2.71 hr	2.72	2.40	59.84	57.60
Tractor W-2	.865	.902	2.68 hr	2.32	2.42	51.04	58.08
Pickup 1955	.039		31.182 mi	1.22		26.84	
1953		.039	23.25 mi		.91		21.84
Truck 1955	.057		18.797 mi	1.07		23.54	
1953		.057	16.667 mi		.95		22.80
Equipment:							
5' ditcher	.098	.075	.10 hr	.01	.01	.22	.24
10' scraper	.363	.276	.10 hr	.04	.03	.88	.72
2 way/2-16" plow	1.156	3.709	.75 hr	.87	2.78	19.14	66.72
8' chisel	.318	.193	.56 hr	.18	.11	3.96	2.64
10½' offset disk	.980	.745	1.20 hr	1.18	.89	25.96	21.36
12' spiketooth harrow	.048	.033	.20 hr	.01	.01	.22	.24
2 row cultivator	1.073	.632	.90 hr	.97	.57	21.34	13.68
2 row potato planter	2.486	2.279	1.28 hr	3.18	2.92	69.96	70.08
6' steel roller	1.515	1.389	.30 hr	.45	.42	9.90	10.08
Materials:							
Irrigation water	.523	.512	36 ac"	18.83	18.43	414.26	442.32
Seed	6.30	6.30	16 cwt	100.80	100.80	2,217.60	2,419.20
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	660.00	720.00
Labor:							
Drivers 1955	1.00		6.80 hr	6.80		149.60	
1953		1.00	6.53 hr		6.53		156.72
Irrigator	.90	.90	4.50 hr	4.05	4.05	89.10	97.20
General	.90	.90	1.28 hr	1.15	1.15	25.30	27.60
Soc. Sec. & Comp. Insur.				.70	.68	15.40	16.32
Contracts:							
Dust (5%DDT-50% Sulfur)			30 lbs	4.05	4.05	89.10	97.20
Rotobeat				3.00	3.00	66.00	72.00
Dig				12.00	12.00	264.00	288.00
Pick	.16	.16	360 cwt	57.60	57.60	1,267.20	1,382.40
Haul	.075	.075	360 cwt	27.00	27.00	594.00	648.00
Shed	.55	.55	290 cwt	159.50	159.50	3,509.00	3,828.00
Interest on operating capital				4.35	4.34	95.59	104.15
Total operating				444.05	443.55	9,768.99	10,645.19
Total cost				492.42	488.89	10,932.34	11,772.35

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 83. Annual Tractor and Equipment Hours, 1955 and 1953; 320-3 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa		Potatoes			Barley		Milo		All crop total	
	per acre	1955 total (119 ac.)	1953 total (216 ac.)	per acre	1955 total (21 ac.)	per acre	1955 total (62 ac.)	1953 total (70 ac.)	per acre	1955 total (90 ac.)	per acre	1955 total (55 ac.)	1955	1953
T-5D	2.24	266.56	483.84	.57	11.97	2.71	168.02	189.70	.64	57.60	1.32	72.60	576.75	673.54
W-2	4.62	549.78	998.16	.50	10.50	2.68	166.16	187.60	.44	39.60	1.28	70.40	816.64	1185.76
W-1	1.39	165.41	300.00	4.70	98.70				.22	19.80			303.71	300.00
Pickup 3/4 ton													(12,000 miles)	
Truck 1½ ton													(5,000 miles)	
5' ditcher	.25	29.75	54.00			.10	6.20	7.00			.20	11.00	46.95	61.00
10' scraper	.25	29.75	54.00			.10	6.20	7.00			.20	11.00	46.95	61.00
2 way/2-16" plow						.75	46.50	52.50					46.50	52.50
8' chisel	1.12	133.28	241.92			.56	34.72	39.20					168.00	281.12
10½' offset disk	.62	73.78	134.40	.28	5.88	1.20	74.40	84.00	.64	57.60	.92	50.60	262.26	218.40
Border disk									.22	19.80			19.80	--
12' spiketooth harrow	.20	23.80	43.20	.13	2.73	.20	12.40	14.00	.86	77.40			116.33	57.20
12' cultipacker	.20	23.80	43.20								.32	17.60	41.40	43.20
4 row lister	.25	29.75	54.00								.25	13.75	43.50	54.00
4 row lister planter	.31	36.89	66.96								.30	16.50	53.39	66.96
2 row cultivator	.93	110.67	200.00			.90	55.80	63.00					166.47	263.00
4 row cultivator	1.77	210.63	381.68								.73	40.15	250.78	381.68
4 row fertilizer attachment	.41	48.79	88.56										48.79	88.56
1 row cotton picker	2.78	330.82	600.48										330.82	600.48
6 bale cotton trailer	.90	107.10	194.40										107.10	194.40
2 row stalk cutter	.50	59.50	108.00										59.50	108.00
7' power mower				2.17	45.57								45.57	--
8' side delivery rake				2.03	42.63								42.63	--
Broadcaster				.50	10.50				.22	19.80			30.30	--
2 row potato planter						1.28	79.36	89.60					79.36	89.60
6' steel roller						.30	18.60	21.00					18.60	21.00

Table 84. Irrigation Water Use, 1955 and 1953; for 320-3 Farms in Upper San Joaquin Valley

Year and Period	Cotton		Alfalfa		Potatoes		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	per acre	total	
1955	(119 acres)		(21 acres)		(62 acres)		(90 acres)		(55 acres)		
1/1 - 4/30	6.0	714	13.6	285.6	22.0	1364	14.4	1296	--	--	3659.6
5/1 - 6/30	8.0	952	16.0	336	14.0	868	--	--	6.0	330	2486.0
7/1 - 8/31	24.0	2856	16.0	336	--	--	--	--	17.0	935	4127.0
9/1 - 12/31	4.0	476	12.0	252	--	--	--	--	4.0	220	948.0
Seasonal per acre	42.0	--	57.6	--	36.0	--	14.4	--	27.0	--	--
Seasonal per farm	--	4998	--	1209.6	--	2232	--	1296	--	1485	11220.6
1953	(216 acres)		(--------)		(70 acres)		(--------)		(--------)		
1/1 - 4/30	5.0	1080	--	--	22.0	1540	--	--	--	--	2620
5/1 - 6/30	6.0	1296	--	--	14.0	980	--	--	--	--	2276
7/1 - 8/31	24.0	5184	--	--	--	--	--	--	--	--	5184
9/1 - 12/31	4.0	864	--	--	--	--	--	--	--	--	864
Seasonal per acre	39.0	--	--	--	36.0	--	--	--	--	--	--
Seasonal per farm	--	8424	--	--	--	2520	--	--	--	--	10944

Table 85. Cost of Inputs to Establish an Alfalfa Stand on 320-3

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 21 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	2.338		2.34 hr	5.47		114.87	
Tractor W-2	1.854		.20 hr	.37		7.77	
Tractor W-1	1.773		.20 hr	.35		7.35	
Equipment:							
8' chisel	.708		1.12 hr	.79		16.59	
10½' offset disk	2.004		1.22 hr	2.44		51.24	
12' spiketooth harrow	.088		.52 hr	.05		1.05	
Broadcaster	1.458		.22 hr	.32		6.72	
Materials:							
Irrigation water	.798		8 ac"	6.38		133.98	
Seed	.34		25 lbs	8.50		178.50	
Labor:							
Driver	1.00		2.76 hr	2.76		57.96	
Irrigator	.90		1.00 hr	.90		18.90	
Soc. Sec. & Comp. Insur.				.21		4.46	
Contracts:							
Landplane 3X				12.00		252.00	
Make borders				.75		15.75	
Dust (2% parathion)			12.5 lbs	2.14		44.94	
Total cost				43.43		912.08	
Amount charged off annually a/				10.86		228.02	

a/ Total cost to establish stand is depreciated over four years.

Table 24. Cost of Improvements to Establishment on Algonquin Street on [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
Foundation [illegible]				
Floor [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ceiling [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Seed	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Insecticide	[illegible]	[illegible]	[illegible]	[illegible]
Ins. Spr. & Conv. Equip.				
[illegible]				
[illegible]				
Cost (% production)				
Total cost				

1/ Land cost to establishment plant is [illegible]

Table 86. Inputs and Costs for Producing Alfalfa on 320-3
1955 Yield: 7.0 tons

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 90 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50		182.00 a/	
Office				1.00		22.00 a/	
Improvements				1.94		42.68 a/	
Power				7.21		151.41	
Equipment				5.25		110.25	
Irrigation water				14.75		309.75	
¼ cost to establish stand				10.86		228.02	
Total overhead				47.51		1,046.11	
Operating:							
Power:							
Tractor W-1	.597		4.20 hr	2.51		52.71	
Pickup	.039		25.762 mi	1.00		21.00	
Truck	.057		14.409 mi	.82		17.22	
Equipment:							
7' power mower	.768		2.17 hr	1.67		35.07	
8' side delivery rake	1.220		2.03 hr	2.48		52.08	
Materials:							
Irrigation water	.542		57.6 ac"	31.22		655.62	
Labor:							
Drivers	1.00		5.32 hr	5.32		111.72	
Irrigators	.90		7.20 hr	6.48		136.08	
Soc. Sec. & Comp. Insur				.68		14.37	
Contracts:							
Bale	3.50		7.0 ton	24.50		514.50	
Roadside	1.75		7.0 ton	12.25		257.25	
Total operating				88.93		1,867.62	
Total cost				136.44		2,913.73	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 87. Inputs and Costs for Producing Barley on 320-3
1955 Yield: 25 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 90 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50		429.00a/	
Office				1.00		64.00a/	
Improvements				1.94		124.18a/	
Power				4.48		403.20	
Equipment				2.51		225.90	
Irrigation water				3.69		332.10	
Total overhead				20.12		1,578.38	
Operating:							
Power:							
Tractor T-5D	.890		.64 hr	.58		52.20	
Tractor W-2	.845		.22 hr	.19		17.10	
Tractor W-1	.597		.44 hr	.26		23.40	
Pickup	.039		25.756 mi	1.00		90.00	
Truck	.057		14.409 mi	.82		73.80	
Equipment:							
10½' offset disk	.514		.64 hr	.33		29.70	
Border disk	.883		.22 hr	.19		17.10	
12' spiketooth harrow	.016		.86 hr	.01		.90	
Broadcaster	.413		.22 hr	.09		8.10	
Materials:							
Irrigation water	.542		14.4 ac"	7.80		702.00	
Seed	.04		80 lbs	3.20		288.00	
Labor:							
Drivers	1.00		2.42 hr	2.42		217.80	
Irrigator	.90		1.80 hr	1.62		145.80	
Soc. Sec. & Comp. Insur.				.23		21.09	
Contracts:							
Harvest				5.00		450.00	
Haul	.10		25 cwt	2.50		225.00	
Storage	.144		25 cwt	3.60		324.00	
Insurance ($1.50 per $100.00 of value)			25 cwt	.81		72.56	
Interest on operating capital				.71		63.52	
Total operating				31.36		2,822.07	
Total cost				51.48		4,400.45	

a/ Total does not equal amount per acres multiplied by acres due to:

a) adjustment for non-crop acres

b) 55 acres at one-half of rate because of double crop and remaining 35 acres at full rate.

Table 88. Inputs and Costs for Producing Cotton on 320-3
1955 Yield: 2.1 Bales 1953 Yield: 1.75 Bales

Item		Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acre
1		2	3	4	5	6	7	8
Overhead:								
Real estate taxes					6.50	6.50	819.00a/	1,514.50a/
Office					1.00	1.00	123.00a/	223.00a/
Improvements					1.94	1.94	238.65a/	432.68a/
Power					14.44	11.39	1,718.36	2,460.24
Equipment					22.56	13.10	2,684.64	2,829.60
Irrigation water					10.75	10.26	1,279.25	2,216.16
Total overhead					57.19	44.19	6,862.90	9,676.18
Operating:								
Power:								
Tractor T-5D		.890	.834	2.24 hr	1.99	1.87	236.81	403.92
Tractor W-2		.845	.878	6.01 hr	5.08	5.28	604.52	1,140.48
Pickup	1955	.039		51.504 mi	2.01		239.19	
	1953		.039	47.81 mi		1.86		401.76
Truck	1955	.057		14.409 mi	.82		97.58	
	1953		.057	17.482 mi		1.00		216.00
Equipment:								
5' ditcher		.089	.069	.25 hr	.02	.02	2.38	4.32
10' scraper		.332	.256	.25 hr	.08	.06	9.52	12.96
8' chisel		.312	.187	1.12 hr	.35	.21	41.65	45.36
10½' offset disk		.514	.618	.62 hr	.32	.38	38.08	82.08
12' spiketooth harrow		.016	.031	.20 hr		.01	.36	2.16
12' cultipacker		.918	.880	.20 hr	.18	.18	21.42	38.88
4 row lister		1.207	.972	.25 hr	.30	.24	35.70	51.84
4 row lister planter		1.030	.822	.31 hr	.32	.25	38.08	54.00
4 row cultivator		.798	.524	1.77 hr	1.41	.93	167.79	200.88
4 row fertilizer attachment		.615	.339	.41 hr	.25	.14	29.75	30.24
1 row cotton picker		4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer		.378	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter		.273	.150	.50 hr	.14	.08	16.66	17.28
Materials:								
Irrigation water	1955	.542		42 ac"	22.76		2,708.44	
	1953		.547	39 ac"		21.33		4,607.28
Seed (Acid delint)		.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH_4SO_4)	1955	.032		275 lbs	8.80		1,047.20	
(NH_4SO_4)	1953		.032	225 lbs		7.20		1,555.20
Labor:								
Drivers	1955	1.00		11.30 hr	11.30		1,344.70	
	1953		1.00	11.33 hr		11.33		2,447.28
Irrigators	1955	.90		5.25 hr	4.72		561.68	
	1953		.90	4.875 hr		4.39		948.24
General		.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.					.95	.93	112.50	200.45

(Continued on next page.)

Table 88 continued.

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 119 acres	Total Cost 1953 216 acres
1	2	3	4	5	6	7	8
Contracts:							
Fertilize (NH_3) 1955			70 lbs	8.60		1,023.40	
(NH_3) 1953			55 lbs		7.03		1,518.48
Hand thin				5.00	5.00	595.00	1,080.00
Hand weed				5.00	5.00	595.00	1,080.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.04	8.04	956.76	1,736.64
Defoliate($NaClO_3$ w/Borate or Mg.)			10 lbs	4.25	4.25	505.75	918.00
Gin 1955	14.70		2.1 bale	30.87		3,673.53	
1953		14.70	1.75 bale		25.72		5,555.52
Insur. & storage 1955	1.19		2.1 bale	2.50		297.50	
1953		1.19	1.75 bale		2.08		449.28
Interest on operating capital				2.47	2.18	293.96	470.00
Total operating				143.45	126.27	17,070.39	27,273.01
Total cost				200.64	170.46	23,933.29	36,949.19

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 89. Inputs and Costs for Producing Milo on 320-3

1955 Yield: 30 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 55 acres	Total Cost 1953 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				3.25b/		201.50a/	
Office				.50b/		28.00a/	
Improvements				.97b/		54.33a/	
Power				8.35		459.25	
Equipment				4.91		270.05	
Irrigation water				6.91		380.05	
Total overhead				24.89		1,393.18	
Operating:							
Power:							
Tractor T-5D	.890		1.32 hr	1.17		64.35	
Tractor W-2	.845		1.28 hr	1.08		59.40	
Pickup	.039		25.745 mi	1.00		55.00	
Truck	.057		14.409 mi	.82		45.10	
Equipment:							
5' ditcher	.089		.20 hr	.02		1.10	
10' scraper	.332		.20 hr	.07		3.85	
10 1/2 offset disk	.514		.92 hr	.47		25.85	
12' cultipacker	.016		.32 hr	.01		.55	
4 row lister	1.207		.25 hr	.30		16.50	
4 row lister planter	1.030		.30 hr	.31		17.05	
4 row cultivator	.798		.73 hr	.58		31.90	
Materials:							
Irrigation water	.542		27 ac"	14.63		804.65	
Seed	.08		10 lbs	.80		44.00	
Labor:							
Driver	1.00		3.72 hr	3.72		204.60	
Irrigator	.90		3.375 hr	3.04		167.20	
General	.90		.30 hr	.27		14.85	
Soc. Sec. & Comp. Insur.				.41		22.43	
Contracts:							
Harvest				6.00		330.00	
Haul	.10		30 cwt	3.00		165.00	
Storage	.144		30 cwt	4.32		237.60	
Insurance ($1.50 per $100.00 of value)			30 cwt	1.03		56.92	
Interest on operating capital				.98		54.08	
Total operating				44.03		2,421.98	
Total cost				68.92		3,815.16	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each group.

a/ Total does not equal column because of rounding.

b/ Because of rounding, one-half of the acres allocated to each crop.

Table 90. Inputs and Costs for Producing Potatoes on 320-3
1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit Cost 1955	Unit Cost 1953	Units used per acre	Cost per Acre 1955	Cost per Acre 1953	Total Cost 1955 62 acres	Total Cost 1953 70 acres
1	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	448.50a/	565.50a/
Office				1.00	1.00	63.00a/	77.00a/
Improvements				1.94	1.94	122.24a/	149.40a/
Power				11.44	9.94	709.28	695.80
Equipment				6.34	5.59	393.08	391.30
Irrigation water				9.22	9.47	571.64	662.90
Total overhead				36.44	34.44	2,307.74	2,541.90
Operating:							
Power:							
Tractor T-5D	.890	.834	2.71 hr	2.41	2.26	149.42	158.20
Tractor W-2	.845	.878	2.68 hr	2.26	2.35	140.12	164.50
Pickup 1955	.039		25.742 mi	1.00		62.00	
1953		.039	23.90 mi		.93		65.10
Truck 1955	.057		14.409 mi	.82		50.84	
1953		.057	17.482 mi		1.00		70.00
Equipment:							
5' ditcher	.089	.069	.10 hr	.01	.01	.62	.70
10' scraper	.332	.256	.10 hr	.03	.03	1.86	2.10
2 way/2-16" plow	1.436	1.271	.75 hr	1.08	.95	66.96	66.50
8' chisel	.312	.187	.56 hr	.17	.10	10.54	7.00
10 1/2' offset disk	.514	.618	1.20 hr	.62	.74	38.44	51.80
12' spiketooth harrow	.016	.031	.20 hr	.003	.01	.19	.70
2 row cultivator	.841	.532	.90 hr	.76	.48	47.12	33.60
2 row potato planter	.882	.781	1.28 hr	1.13	1.00	70.06	70.00
6' steel roller	.538	.477	.30 hr	.16	.14	9.92	9.80
Materials:							
Irrigation water	.543	.547	36 ac"	19.51	19.69	1,209.62	1,378.30
Seed	6.30	6.30	16 cwt	100.80	100.80	6,249.60	7,056.00
Fertilizer (17-7-0)			800 lbs	30.00	30.00	1,860.00	2,100.00
Labor:							
Drivers 1955	1.00		6.51 hr	6.51		403.62	
1953		1.00	6.57 hr		6.57		459.90
Irrigators	.90	.90	4.50 hr	4.05	4.05	251.10	283.50
General	.90	.90	1.28 hr	1.15	1.15	71.30	80.50
Soc. Sec. & Comp. Insur.				.68	.68	42.11	47.79
Contracts:							
Dust(5%DDT-50% Sulfur)			30 lbs	4.05	4.05	251.10	283.50
Roto beat				3.00	3.00	186.00	210.00
Dig				12.00	12.00	744.00	840.00
Pick	.16	.16	360 cwt	57.60	57.60	3,571.20	4,032.00
Haul	.075	.075	360 cwt	27.00	27.00	1,674.00	1,890.00
Shed	.55	.55	290 cwt	159.50	159.50	9,889.00	11,165.00
Interest on operating capital				4.27	4.27	264.57	298.24
Total operating				440.57	440.35	27,315.31	30,824.73
Total cost				477.01	474.79	29,623.05	33,366.63

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Table 91. Farm Product Selling Prices, 1953 and 1955

Product	Unit	1955	1953
Alfalfa hay	ton	$ 26.00	$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt	2.15	2.70
Corn	cwt	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt	2.30	2.75
Potatoes (early)	cwt	1.85	1.42
Sugar beets	ton	13.50	13.50

Table 92. Farm Service Purchasing Prices, 1953-1955

Labor Rates

Tractor driver	$1.00 per hr.
Pickup driver	1.00 per hr.
Truck driver	1.00 per hr.
Irrigator	.90 per hr.
General	.90 per hr.
Compensation Insur.	3.8% of labor cost
Social Security	2.0% of labor cost

Equipment Rentals

4' ditcher	$ .50 per hr.
4' scraper	.50 per hr.
10' x 60' landplane	2.00 per hr.
Border disk	.50 per hr.
12' springtooth	.50 per hr.
2 row planter	.50 per hr.
Fertilizer attachment	.50 per hr.
Fertilizer spreader	1.00 per hr.
Stalk cutter	1.00 per hr.
Broadcaster	.25 per hr.

Contract Services

Alfalfa

Bale	ton	3.50
Roadside	ton	1.75
Bees	colony	5.00
Weed	acre	15.00
Harvest	lb.	.03
Certify	acre	10.12
Box rental	acre	1.00
Fertilize (super phosphate)-(appln.)	acre	1.10

Contract Services (continued)

Dust (5% DDT - 75% S)-(application)	lb.	$ .04
Defoliate (1 qt. sinxo in 10 gal. diesel oil)-(appln.)	acre	2.50
Dust (2% Parathion)-(appln.)	lb.	.05

Barley

Harvest	acre	5.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	

Corn

Chop, haul, unload	ton	2.25
Shell	cwt	.125
Pick	acre	10.00
Haul	cwt	.10
Dry	cwt	.175
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	
Fertilize (NH_3)-(appln.)	acre	1.75

Cotton

Hand thin	acre	5.00
Hand weed	acre	5.00
Pick (hand)	bale	42.00
Pick (machine)	bale	24.50
Gin	bale	14.70
Insurance & Storage	bale	1.19
Dust (5% DDT - 50% S)-(application)	lb.	.05
Defoliate ($NaClO_3$ w/Borate or Mg)-(application)	acre	2.50
Fertilize (NH_3)-(appln.)	acre	1.50
Gypsum - (application)	ton	1.50

Table 92. Farm Service Purchasing Prices, 1953-1955

--continued--

Contract Services (continued)

Melons

Turn vines	acre	$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & Haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP- (appln.)	lb.	.05
Fertilize (NH_3)-(appln.)	acre	1.25

Milo

Harvest	acre	6.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	

Potatoes

Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt	.16
Haul	cwt	.075
Shed costs	cwt	.55
Dust (5% DDT-50% S)-(application)	lb.	.05

Contract Services (continued)

Sugar Beets

Thin	acre	$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH_3) - (application)	acre	1.25

Preparing Seedbed

Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75

Table 93. Farm Supply Purchasing Prices, 1953-1955

Alfalfa		
Seed (common)	lb.	$ .32
Seed (caliverde)	lb.	.34
Seed (certified ranger)	lb.	.40
Fertilizer (super phosphate)	lb.	.020
Dust (5% DDT - 75% S)	lb.	.0925
Dust (2% Parathion)	lb.	.121
Sinox Defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90
Barley		
Seed	lb.	.04
Corn		
Seed	lb.	.26
Fertilizer (NH_4SO_4)	lb.	.032
Fertilizer (NH_3)	lb.	.105
Cotton		
Seed (acid delinted)	lb.	.115
Seed (machine delinted)	lb.	.081
Fertilizer (NH_4SO_4)	lb.	.032
Dust (5% DDT - 50% S)	lb.	.085
Defoliant ($NaClO_3$ w/Borate or Mg)	lb.	.175
Fertilizer (NH_3)		a/
Gypsum	ton	2.50
Melons		
Seed	lb.	$1.45
Dust 5% DDT	lb.	.07
1% TEPP	lb.	.16
Fertilizer (NH_3)	lb.	.085
Milo		
Seed	lb.	.08
Permanent Pasture		
Seed	lb.	.50
Fertilizer (16-20)	lb.	.045
Potatoes		
Seed (cut & dipped)	cwt	6.30
Fertilizer (17-7-0)	lb.	.0375
Dust (5% DDT - 50% S)	lb.	.085
Sugar Beets		
Seed	lb.	.46
Fertilizer (NH_3)	lb.	.095

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a/ $ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .085/lb. for 50 tons and over.

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

3. San Joaquin Valley Eastside Cotton Farms, 1953-1955

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W. Neill Schaller

CALIFORNIA AGRICULTURAL EXPERIMENT STATION
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS

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Finally the credit for the statistical and stenographic work goes to personnel in the Giannini Foundation.

[illegible] in the production of the cotton acreage allotment program in [illegible] counties, reductions, and changes in the San Joaquin Valley [illegible] resulted from a study by the Economic Foundations of Agricultural [illegible] Research Division, Agricultural Research Service, United States Department of [illegible].

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Finally, the credit for the substantial and meaningful work goes to personnel in the Farm Economics Research Division.

CONTENTS

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

3. San Joaquin Valley Eastside Cotton Farms; 1953-1955[a]

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller[b]

FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the San Joaquin Valley Eastside. We obtained these data by interviewing farmers and agencies serving farmers, and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160-, and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes.

Table 1 indicates the range in soil quality in the San Joaquin Valley Eastside, according to the Storie Index and soil survey classifications. The two tables following deal with farm size and aggregate cropland use from 1953 through 1955. Succeeding tables are concerned with the three farm models we analyzed. The data for the 80-acre farm will serve to indicate the kind and amount of information that this report includes for each of these three farm sizes. First appears Table 4 with data on farm resources; Tables 5-8 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 9-12 present production cost information for these crops. This same listing applies to the 160-acre farms (Tables 13-21) and the 320-acre units (Tables 22-34). In addition to these farm-oriented data, we list in the final tables price and cost information for the farm products and the principal production materials and services.

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a/ This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 3. San Joaquin Valley Eastside Cotton Farms, Giannini Mimeographed Report No. 202, the third of a series based on detailed investigations of the changes in farm organization, production and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(w), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

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TABLE 1

Soils by Survey Areas and Grades
San Joaquin Valley Eastside

Soil classification		Soil Survey Areas									
		Fresno		Hanford		Pixley		Visalia		Total	
Grade	Index	acres	per cent of total	acres	per cent of total	acres	per cent of total	acres	per cent of total	acres	per cent by grades
1	2	3	4	5	6	7	8	9	10	11	12
I	90 - 100	39,424	4.5			90,176	15.7	108,736	20.0	238,336	57.8
	80 - 89			81,260	58.8	29,824	5.2	62,848	11.6	173,932	42.2
	Subtotal	39,424	4.5	81,260	58.8	120,000	20.9	171,584	31.6	412,268	100.0
	Percent of Area Total										19.4
II	70 - 79	6,016	.7	6,754	4.9	83,392	14.5	43,776	8.0	139,938	38.8
	60 - 69	76,032	8.8	33,748	24.4	46,784	8.2	64,192	11.8	220,756	61.2
	Subtotal	82,048	9.5	40,502	29.3	130,176	22.7	107,968	19.8	360,694	100.0
	Percent of Area Total										17.0
III	50 - 59	212,032	24.4			94,272	16.4	33,984	6.2	340,288	55.3
	40 - 49	225,280	26.0			33,088	5.8	17,152	3.2	275,520	44.7
	Subtotal	437,312	50.4			127,360	22.2	51,136	9.4	615,808	100.0
	Percent of Area Total										29.0
IV	20 - 39	257,856	29.7	5,470	4.0	41,728	7.3	102,464	18.8	407,518	55.4
V	10 - 19	2,624	.3	8,768	6.3	120,256	20.9	28,608	5.3	160,256	21.8
VI	0 - 10	48,576	5.6	2,240	1.6	34,560	6.0	82,240	15.1	167,616	22.8
	Subtotal	309,056	35.6	16,478	11.9	196,544	34.2	213,312	39.2	735,390	100.0
	Percent of Area Total										34.6
Total		867,840	100.0	138,240	100.0	574,080	100.0	544,000	100.0	2,124,160	100.0

Sources: Soil Survey of the Fresno Area, Calif., U. S. Bureau of Soils.
Soil Survey of the Hanford Area, Calif., U. S. Bureau of Soils.
Soil Survey of the Pixley Area, Calif., U. S. Bureau of Plant Industry.
Soil Survey of the Visalia Area, Calif., U. S. Bureau of Plant Industry.

TABLE 2

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955:
San Joaquin Valley Eastside

Cropland class intervals	Number of farms	Cropland		Total cotton acres				Diverted acres	
		Average per farm	Total	3-year average 1951-1953	1953	Final allotment 1954	Acres planted 1955[a]	3-year average to 1954	3-year average to 1955
1	2	3	4	5	6	7	8	9	10
		acres							
1 - 20	3,424	12.7	43,520	27,086	26,725	30,539	24,238	3,453	- 2,848
21 - 60	3,805	37.5	105,160	63,975	60,599	45,010	35,729	- 18,965	- 28,246
61 - 100	1,119	78.0	87,298	52,096	48,490	34,028	27,026	- 18,068	- 25,070
101 - 220	1,168	149.0	174,054	99,009	90,784	64,610	51,299	- 34,399	- 47,710
221 - 420	593	298.2	176,858	98,806	90,161	63,889	50.721	- 34,917	- 48,085
421 - 660	237	518.1	122,798	61,518	54,661	40,813	32,398	- 20,705	- 29,121
661 - 1,100	141	842.1	118,735	58,769	54,763	39,122	31,071	- 19,647	- 27,698
1,100 + above	122	4,181.6	511,373	164,109	157,217	110,183	87,469	- 53,926	- 76,640
Total	9,609	139.4	1,339,796	625,368	534,910	428,194	339,950	-197,174	-285,418

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee.

TABLE 3

Land Use on Cotton Farms, 1953-1955:
San Joaquin Valley Eastside

Cropland class intervals	Mid-point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
			total	average	number reporting	total acres	number reporting	total acres	total acres reported	average acres per farm
1	2	3	4	5	6	7	8	9	10	11
1 - 20	10	546	7,114	13.0	355	4,915	160	801	12,830	23.5
21 - 60	40	612	22,949	37.5	292	5,201	224	1,714	29,864	48.8
61 - 100	80	255	20,032	78.6	83	2,159	78	1,354	23,545	92.3
101 - 220	100	254	38,212	150.4	82	3,924	85	3,047	45,183	177.9
221 - 420	320	120	35,192	293.3	29	881	41	6,509	42,582	354.8
421 - 660	540	51	25,751	504.9	7	763	17	1,873	28,387	556.6
661 - 10,000	5,330	67	111,932	1,670.6	10	4,960	28	23,057	139,949	2,088.8
Total		1,905	261,182	137.1	858	22,803	633	38,355	322,340	169.2

Source: Questionnaire returns, 1954.

TABLE 4

Physical Resources and Investments for Typical 80-acre Farm, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
1	2	3	4	5	6	7
			dollars			
Land:						
Total	80 acres					
Total cultivated	74 acres					
Irrigation system:						
Pumping plant	30 h.p.; 1000 g.p.m.	1		3,000.00		1,537.50
Well, casing	12" diameter; 80' lift	200'	4.15	830.00	2.08	415.00
Pipe	12"	1,380'	.80	1,104.00	.40	552.00
Stands	7' - 36"	1		63.00		31.50
Vents	7' - 8"	2	4.90	9.80	2.45	4.90
Alfalfa valves	10"	12	15.00	180.00	7.50	90.00
Siphons	1" - 2"	150	1.50	225.00	.75	112.50
Subtotal				5,411.80		2,743.40
Power:						
Wheel tractor	W-1 (20-25 h.p.)	1		2,000.00		1,400.00
Wheel tractor	W-2 (25-35 h.p.)	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				7,000.00		4,700.00
Equipment:						
Plow, 2 way	2 - 14"	1		453.00		226.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	10'	1		700.00		350.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Planter	4 row	1		500.00		250.00
Cultivator	4 row	1		1,000.00		500.00
Cotton trailer	4 bale	3	350.00	1,050.00	192.50	577.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Ditcher b/	4'	1		135.00		67.50
Scraper b/	8'	1		485.00		242.50
Subtotal				6,258.00		3,181.50
Total				18,669.80		10,624.90

a/ $\frac{\text{New cost + Salvage value}}{2}$

No salvage values, except as follows:

W-1 tractor:	$ 800	4-bale cotton trailers:	$ 35 each
W-2 tractor:	$1,200		
Pickup truck:	$ 400	Pumping plant:	$ 75

b/ Standby equipment owned but not used in 1953 or 1955.

Source: Calculated from survey data.

TABLE 4

Equipment Resources and Requirements for Typical 60-acre Farm.

Item	Size or capacity	Per unit: Cost new	Per unit: Total	Per unit: Annual	Total
	Z				Z
Land	60 acres				
Total conditional	74 acres				
[illegible]	30 h.p. 1200 r.p.m.	1	2,000.00		1,027.50
[illegible]	12" diameter; 60' lift	2001	4.15	300.00	2.00	474.00
[illegible]	12"	1,380'	.85	1,104.00	.40	55.00
[illegible]	24 - 12"	1		60.00		24.00
[illegible]	24 - 6"	2	4.00	5.00	2.15	[illegible]
[illegible]	100	12	12.00	1[illegible].00	7.10	[illegible]
[illegible]	1" - 2"	150	1.00	[illegible]	.75	[illegible]
Sub-total				[illegible]		[illegible]
3/ - 1 tractor	1-4 (29-35 h.p.)	1		2,000.00		2,000.00
3/-2	3-6 (29-35 h.p.)	1		3,000.00		[illegible]
Plowing track	1/2 ton	1		2,000.00		[illegible]
Total				7,000.00		[illegible]
Tool: 2 way	1 - 14"	1		150.00		50.00
	2 1/2"	1		600.00		300.00
	10'	1		750.00		750.00
Spike-tooth harrow	4' section	2	30.00	90.00	17.00	45.00
	10'	1		350.00		100.00
	4 row	1		300.00		[illegible]
	4 row	1		1,200.00		200.00
Cotton trailer	4 bale	3	370.00	1,000.00	150.00	500.00
	2'	1		800.00		100.00
	8'	1		600.00		200.00
Cultivator 3/	4			[illegible]		[illegible]
Harrow 3/	8'	1		400.00		[illegible]
Implements				6,950.00		[illegible]
Total				10,000.00		12,652.00

3/ Purchase & Salvage value

Is salvage values, cost at is follows: 1-1 tractor: $ 800 4-bale cotton
2-2 tractors: [illegible] tractors: [illegible] 25 each
Plowing truck: $ 400 Sweeping plows: $ 75

b/ Already equipment owned but not used in 1953 or 1954.

TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, 80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
1	2	3	4	5	6	7	8	9	10
	Cut stalks	1	W-1	2 row stalk cutter (rented)	18	.50	.50		
	Disk 2X	1	W-2	7-1/2' offset disk	25	.72	.72		
	Plow	1	W-2	2 way/2-14"	9	1.00	1.00		
	Border up	1	W-2	border disk (rented)	40	.22	.22		
	Preirrigate	1						6 ac.in.	8.4 ac.in.
	Disk 2X with harrow attached	1	W-2	10' tandem disk plus 12' spiketooth harrow	24	.76	.76		
4/5 - 4/20	Plant	2	W-2	4 row planter	29	.62	.31	30# delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41		
	Fertilize - Contract							74# (N)	100# (N)
	Cultivate (3)	1	W-2	4 row cultivator	22	.41	.41		
6/15 - 7/1	Irrigate (1)	1						6 ac.in.	6 ac.in.
	Hand weed - Contract								
	Cultivate (4)	1	W-2	4 row cultivator	26	.35	.35		
	Irrigate (2)	1						6 ac.in.	6 ac.in.
6/15 - 8/15	Dust 2X - Contract							60# of 5% DDT 50% S	
7/10 - 7/20	Cultivate and lay by (5)	1	W-2	4 row cultivator	26	.35	.35		
7/20 - 9/5	Irrigate 3X (3-5)	1						18 ac.in.	18 ac.in.
9/15 - on	Pick 1st - hand - Contract								
11/15 - on	Pick 2nd - hand - Contract								
9/15 - on	Haul to gin	1	Pick-up	4 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

Source: Calculated from survey data.

Table 3

Elements of Construction and Operation Ingots for Rolling Operations
Sample Plan

Date	Operations	Men	Crew and Equipment Used	Hours per Operation	Equipment Costs	Equipment Costs Total 1972	Equipment Costs Total 1973
	Ship to site	1	1-2 Low speed operator (Ingot Car)	15	.50	.50	
	[illegible]	1	2-2 Tractor and operator	45	.70	.70	
		1	3-2 Operator			.50	
		1	4-2 Mobile crane (rental)		.50	.50	
		1					
	[illegible]	1	5-2 [illegible] Bunker over pipe 12' Lightbrook Bunker 6 low [illegible] hoist	2	.95	.70	5 [illegible]
	Outlets (1)		4 low activator	.50			
	Outlets (2)	1	1-3 low activator	1.2	.50	.4	Man (2) Crane (4)
	Outlets (3)	1	2-3 4 low activator	2.5	.12	.10	5 [illegible]
	Trigger (1)	1					
	Outlets (4)	1	3-3 low activator	[illegible]	.35	.35	5 [illegible] 5 [illegible] [illegible] of 5' [illegible] [illegible]
	[illegible] (5)	1					
	Pour 1 - Contract						
	Continue and [illegible] (6)	1	4-3 low activator	4	.35	.35	35 [illegible] 12 [illegible]
	Integrate [illegible] (1-5)	1					
	Stock Pit - Hand - Contract						
	Stock Pit - Hand - Contract						
	Haul to pit	1	(Crew-Hours) 4 hole [illegible] Trailer	6	1.50	1.50	
	Pit - Contract						

TABLE 6

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa, 80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Irrigate 1X	1						5.5 ac. in.
4/5 - 4/15	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
5/15 - 5/25	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
6/20 - 6/30	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
7/20 - 7/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
9/25 - 10/10	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.

Source: Calculated from survey data.

TABLE 7

Calendar of Operations and Physical Inputs Per Acre to Establish an Alfalfa Stand, 80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	W-2	10' tandem disk	28	.64	.64	
	Chisel 2X - Contract							
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	W-2	7-1/2' offset disk	25	.36	.36	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-2	7-1/2' offset disk w/8' spiketooth	22	.41	.41	
2/1 - 3/15	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth	40	.22	.22	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.

Table 1

Calendar of Normalized and Expected Inputs Per Acre to Determine on MIT/ITA Sweet

Date	Operations	Man Power	Equipment	Man-hour	Man-	Tractor	Remarks
		3	4 5	5	7	8	
	Disk 2X	1	3-2 30' tandem disk	[illegible]	[illegible]	[illegible]	
	Harrow 2X - Contract						
	Landplane 2X - Contract						
	Furrow borders - Contract						
	Landplane - Contract						
	Disk	1	[illegible]	[illegible]	[illegible]	[illegible]	
	Preemergate	1					8 acre. Hrs.
	Hook with harrow	1	[illegible]	[illegible]	[illegible]	[illegible]	
2/21 - 3/25	Seed	1	Seeder-drier (rented)	[illegible]	[illegible]	[illegible]	24 man
	Hoe	1	4-1 30' sprayer.		[illegible]	[illegible]	
	Hoe - Contract						1.5
							24 portation

Source: Obtained from survey data.

TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn, 80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	W-2	7-1/2' offset disk	25	.72	.72	
	Plow	1	W-2	2 way/2-14"	9	1.00	1.00	
	Border up	1	W-2	border disk (rented)	40	.22	.22	
	Preirrigate	1						7 ac. in.
	Disk 2X w/harrow attached	1	W-2	10' tandem disk w/12' spiketooth	24	.76	.76	
3/25 - 4/10	Plant	2	W-2	4 row planter	28	.64	.32	10# seed
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	18	.50	.50	
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Fertilize - Contract							119# (N)
5/5 - 5/15	Irrigate (1)	1						4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	20	.90	.90	
5/30 - 8/20	Irrigate 7X (2-8)	1						28 ac. in.
9/15 - on	Pick and haul - Contract							
10/1 - on	Shell - Contract							

Source: Calculated from survey data.

TABLE 9

Inputs and Costs for Producing Cotton,
80-acre Farm

Item	1953 Acres: 51 — Yield: 1.1 bales				1955 Acres: 26 — Yield: 1.4 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.34	374.40		6.50	7.40	192.40
Office		2.03	2.12	108.00		2.03	2.13	55.50
Power			18.34	935.34			23.18	602.68
Equipment			15.40	785.40			23.83	619.58
Irrigation water			6.88	350.88			6.72	174.72
Total Fixed			50.08	2,554.02			63.26	1,644.88
VARIABLE:								
Power:								
Tractor W-1	.77 hr.	1.19	.92	46.92	.77 hr.	1.05	.81	21.06
Tractor W-2	4.98 hr.	.87	4.32	220.32	4.98 hr.	.97	4.83	125.58
Pickup truck	123 mi.	.04	4.67	238.17	156 mi.	.04	5.94	154.44
Equipment (owned):								
Plow, 2w/2-14"	1.00 hr.	1.33	1.33	67.83	1.00 hr.	1.89	1.89	49.14
7 1/2' offset disk	.72 hr.	2.41	1.73	88.23	.72 hr.	3.01	2.17	56.42
10' tandem disk	.76 hr.	2.50	1.90	96.90	.76 hr.	3.20	2.43	63.18
12' spiketooth harrow	.76 hr.	.04	.03	1.53	.76 hr.	.06	.04	1.04
10' cultipacker	.27 hr.	2.36	.64	32.64	.27 hr.	4.63	1.25	32.50
4-row planter	.31 hr.	.63	.20	10.20	.31 hr.	.89	.28	7.28
4-row cultivator	1.97 hr.	1.99	3.92	199.92	1.97 hr.	2.87	5.65	146.90
4-bale cotton trailer	1.50 hr.	.41	.62	31.62	1.50 hr.	.81	1.21	31.46
Equipment (rented):								
Border disk	.22 hr.	.50	.11	5.61	.22 hr.	.50	.11	2.86
2-row stalk cutter	.50 hr.	1.00	.50	25.50	.50 hr.	1.00	.50	13.00
Materials:								
Irrigation water	36 ac"	.28	10.19	519.69	38.4 ac"	.27	10.37	269.62
Seed (acid delint)	30 lb.	.08	2.40	122.40	30 lb.	.08	2.40	62.40
Labor:								
Drivers	10.19 hr.	1.00	10.19	519.69	10.98 hr.	1.00	10.98	285.48
Irrigator	16.20 hr.	.90	14.58	743.58	17.28 hr.	.90	15.55	404.30
General	.31 hr.	.90	.28	14.28	.31 hr.	.90	.28	7.28
Soc. Sec. & Comp. Insur. b/			1.45	74.10			1.56	40.43
Contracts:								
Fertilize (N)	74 lb.		9.27	472.77	100 lb.		12.00	312.00
Hand thin			5.00	255.00			5.00	130.00
Hand weed			5.00	255.00			5.00	130.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	413.10	60 lb.	.13	8.10	210.60
Pick 2X - hand	1.1 bale	42.00	46.20	2,356.20	1.4 bale	42.00	58.80	1,528.80
Gin	1.1 bale	14.70	16.17	824.67	1.4 bale	14.70	20.58	535.08
Insur. & storage	1.1 bale	1.19	1.31	66.81	1.4 bale	1.19	1.67	43.42
Interest on operating capital c/			2.16	110.06			2.45	63.66
Total Variable			153.19	7,812.74			181.85	4,727.93
Total Cost			203.27	10,366.76			245.11	6,372.81

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5 percent
Source: Calculated from survey data.

Table 1

Inputs and Costs for Farm Alternatives,
90-acre Farm

Item	For 1: 50 — 20 [illegible] 1-Bales				4-year 20 — [illegible] 4-Bales			
	Units used per acre[a]	Unit cost[b]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[b]	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
	1-Bales				4-Bales			
Fixed:								
Real estate taxes		[illegible]	7.44	324.40		[illegible]	7.40	102.40
Overhead			[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
Power			1.24	0[illegible].34			25.18	[illegible]
Equipment			11.40	7[illegible].40			23.23	610.70
Irrigation water			[illegible]	[illegible]			6.72	174.72
Total Fixed			20.05	2,5[illegible].02			[illegible]	1,644.80
Variable:								
Fertilizer:								
Fertilizer #-1	.77 lbs.	1.10	.82	[illegible].21	.77 lbs.	1.05	.81	[illegible]
Fertilizer #-2	[illegible] lbs.	.77	[illegible].23	2[illegible].72	[illegible] lbs.	.77	[illegible].42	12[illegible]
Fertilizer truck	1[illegible] acre	.44	[illegible].07	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]
Seed and [illegible]:								
Plows, [illegible]	1.[illegible] lbs.	1.33	1.32	6[illegible]	1.[illegible] lbs.	1.[illegible]	1.[illegible]	[illegible]
7 1/2' [illegible] disk	.[illegible] lbs.	2.47	1.23	[illegible]	.[illegible] lbs.	1.01	1.[illegible]	[illegible]
10' tandem disk	.[illegible] lbs.	2.50	1.00	[illegible]	.[illegible] lbs.	3.00	[illegible]	[illegible]
12' [illegible] harrow	.[illegible] lbs.	.04	.07	1.[illegible]	.76 lbs.	.06	.01	1.[illegible]
10' [illegible]	.27 lbs.	2.30	.64	32.[illegible]	.24 lbs.	[illegible]	1.[illegible]	[illegible]
[illegible] planter	.[illegible] lbs.	.63	.20	10.[illegible]	.[illegible] lbs.	.09	.03	7.[illegible]
[illegible]	.[illegible] lbs.	1.40	3.82	1[illegible].[illegible]	1.[illegible] lbs.	[illegible]	[illegible]	[illegible]
[illegible]	.[illegible] lbs.	.41	.62	[illegible].42	1.[illegible] lbs.	.61	1.21	[illegible]
Spraying [illegible]:								
[illegible]	.72 lbs.	.50	.11	5.61	.72 lbs.	.50	.11	[illegible]
[illegible] water	.50 lbs.	1.00	.50	2[illegible].50	.50 lbs.	1.07	.50	[illegible]
Harvesting:								
Harvester [illegible]	20 acre	.28	10.19	[illegible].00	38.4 acre	.27	[illegible].17	[illegible]
Haul (acre [illegible])	30 lb.	.06	2.40	1[illegible].40	32 lb.	.08	2.40	[illegible]
Hauling:								
Thresher	1.[illegible] hrs.	1.60	10.13	[illegible]	1.[illegible] hrs.	1.[illegible]	1.[illegible]	[illegible]
Irrigator	10.20 hrs.	.90	14.[illegible]	7[illegible].[illegible]	12.25 hrs.	.90	1[illegible].00	[illegible]
General	.31 hrs.	.90	.28	14.28	.11 hrs.	.90	.28	7.[illegible]
Ins., [illegible] & Corp. Insur. b/			1.45	74.10			1.55	40.[illegible]
Crop Production:								
[illegible] (%)	74 lb.		0.27	[illegible].27		1.20 [illegible]	32.00	372.00
Road tax			3.20	2[illegible].00			3.00	130.00
Road work			3.00	2[illegible].00			3.00	130.00
Seed 2A (50% DDT - 50% sulfur)	.00 lb.	.15	8.10	41[illegible].10	60 lb.	.13	8.10	[illegible]
Bale 2A - Hand	1.1 bale	[illegible]	40.20	2,3[illegible].20	1.4 bale	[illegible]	58.40	1,[illegible]
Gin	1.1 bale	1.20	16.17	[illegible]	1.4 bale	1.20	20.38	[illegible]
Insur. & storage	1.1 bale	1.10	1.21	[illegible]	1.4 bale	1.10	1.67	[illegible]
Interest on operating capital[c]			2.16	1[illegible]			2.40	[illegible]
Total Variable			[illegible]	[illegible]			[illegible]	[illegible]
Total costs			[illegible]	[illegible]			[illegible]	[illegible]

a/ [illegible].

b/ 3.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, planting, and pickling) ÷ 2, x 5.5 percent.

d/ [illegible] from survey data.

TABLE 10

Inputs and Costs for Producing Alfalfa,
80-acre Farm

Item	1953				1955			
	Acres: 20 — Yield: 6.0 tons				Acres: 34 — Yield: 6.25 tons			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.28	145.60		6.50	7.49	254.80
Office		2.03	2.10	42.00		2.03	2.16	73.50
Power			13.62	272.40			12.33	419.22
Equipment			7.18	143.60			4.74	161.16
Irrigation water			9.74	194.80			8.92	303.28
1/4 cost to establish stand			12.60	252.08			13.19	448.34
TOTAL FIXED			52.52	1,050.48			48.83	1,660.30
VARIABLE:								
Power:								
Tractor W-1	3.60 hr.	1.19	4.28	85.60	3.60 hr.	1.05	3.77	128.18
Pickup truck	61 mi.	.04	2.34	46.80	78 mi.	.04	2.97	100.98
Equipment:								
7' power mower	1.86 hr.	.94	1.75	35.00	1.86 hr.	.55	1.03	35.02
8' side delivery rake	1.74 hr.	1.49	2.60	52.00	1.74 hr.	.88	1.53	52.02
Materials:								
Irrigation water	51 ac"	.28	14.43	288.60	51 ac"	.27	13.77	468.18
Labor:								
Drivers	5.14 hr.	1.00	5.14	102.80	5.55 hr.	1.00	5.55	188.70
Irrigators	22.95 hr.	.90	20.66	413.20	22.95 hr.	.90	20.66	702.44
Soc. Sec. & Comp. Insur. b/			1.50	29.93			1.52	51.69
Contracts:								
Bale	6.0 ton	3.50	21.00	420.00	6.25 ton	3.50	21.88	743.92
Roadside	6.0 ton	1.75	10.50	210.00	6.25 ton	1.75	10.94	371.96
Total variable			84.20	1,683.93			83.62	2,843.09
Total cost			136.72	2,734.41			132.45	4,503.39

a/ Rounded.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

[illegible]

TABLE 11

Inputs and Costs for Establishing an Alfalfa Stand,
80-acre Farm

Item	1953 Acres: 20 Units used per acre a/	1953 Unit cost a/	1953 Cost per acre	1953 Total cost	1955 Acres: 34 Units used per acre a/	1955 Unit cost a/	1955 Cost per acre	1955 Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
Power:								
W-1 tractor	.44 hr.	3.98	1.75	35.00	.44 hr.	3.21	1.41	47.94
W-2 tractor	1.41 hr.	2.69	3.79	75.80	1.41 hr.	3.47	4.89	166.26
Equipment:								
7 1/2' offset disk	.77 hr.	4.61	3.55	71.00	.77 hr.	5.77	4.44	150.96
10' tandem disk	.64 hr.	4.80	3.07	61.40	.64 hr.	6.14	3.93	133.62
8' spiketooth harrow	.41 hr.	.18	.07	1.40	.41 hr.	.24	.10	3.40
12' spiketooth harrow	.22 hr.	.27	.06	1.20	.22 hr.	.35	.08	2.72
Broadcaster (rented)	.22 hr.	.25	.06	1.20	.22 hr.	.25	.06	2.04
Materials:								
Irrigation water	8 ac"	.47	3.79	75.80	8 ac"	.45	3.56	121.04
Seed	25 lb.	.34	8.50	170.00	25 lb.	.34	8.50	289.00
Labor:								
Drivers	1.85 hr.	1.00	1.85	37.00	1.85 hr.	1.00	1.85	62.90
Irrigators	3.60 hr.	.90	3.24	64.80	3.60 hr.	.90	3.24	110.16
Soc. Sec. & Comp. Insur. b/			.30	5.90			.30	10.04
Contracts:								
Chisel 2X			5.50	110.00			5.50	187.00
Landplane 2X			12.00	240.00			12.00	408.00
Make borders			.75	15.00			.75	25.50
Dust (2% Parathion)	12.5 lb.		2.14	42.80	12.5 lb.		2.14	72.76
Total Cost			50.42	1,008.30			52.75	1,793.34
Amount Charged Off Annually			12.60	252.08			13.19	448.34

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

Inputs and Costs for Production on [illegible] Farms.

Item	Unit	Quantity per acre a/	Unit cost b/	Total cost per acre	Hours used per acre a/	Labor cost c/ per acre	Total cost
Power:							
[illegible]-1 tractor	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
[illegible]-2 bindler	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
Equipment:							
[illegible] 2/24" [illegible] disk	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
[illegible] tandem disk	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
[illegible] [illegible] harrow	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
[illegible] [illegible] harrow	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
Fertilizer (rock [illegible])	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Materials:							
Inoculation [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Seed	[illegible] lb.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Labor:							
[illegible]	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
[illegible] [illegible]	[illegible] hr.	[illegible]			[illegible] hr.	[illegible]	[illegible]
Gen. [illegible] Comp. Factor. b/			[illegible]	[illegible]		[illegible]	[illegible]
Overhead:							
[illegible] 2X			[illegible]	[illegible]		[illegible]	[illegible]
[illegible] 2X			[illegible]	[illegible]		[illegible]	[illegible]
[illegible]			[illegible]	[illegible]		[illegible]	[illegible]
[illegible] (2.[illegible] [illegible])	[illegible] lb.		[illegible]	[illegible]	[illegible] lb.	[illegible]	[illegible]
Total Cost							
[illegible] [illegible] per [illegible]							

a/ [illegible] b/ [illegible] costs for [illegible], equipment, and water equal sum of [illegible] [illegible] units.

c/ [illegible] Labor costs.

Source: [illegible] Farm [illegible] Survey Data.

TABLE 12

Inputs and Costs for Producing Field Corn,
80-acre Farm

Item	1955 Acres: 10 — Yield: 35 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	7.28	72.80
Office		2.03	2.10	21.00
Power			16.69	166.90
Equipment			13.00	130.00
Irrigation water			6.82	68.20
Total Fixed			45.89	458.90
VARIABLE:				
Power:				
Tractor W-2	4.87 hr.	.97	4.72	47.20
Pickup truck	78 mi.	.04	2.96	29.60
Equipment:				
Plow, 2w/2-14"	1.00 hr.	1.89	1.89	18.90
7 1/2' offset disk	.72 hr.	3.01	2.17	21.70
10' tandem disk	.76 hr.	3.20	2.43	24.30
12' spiketooth harrow	.76 hr.	.06	.04	.40
4-row planter	.32 hr.	.89	.28	2.80
4-row cultivator	1.85 hr.	2.87	5.31	53.10
Border disk (rented)	.22 hr.	.50	.11	1.10
Materials:				
Irrigation water	39 ac"	.27	10.53	105.30
Seed	10 lb.	.26	2.60	26.00
Labor:				
Drivers	6.82 hr.	1.00	6.82	68.20
Irrigators	17.55 hr.	.90	15.80	158.00
General	.32 hr.	.90	.29	2.90
Soc. Sec. & Comp. Insur. b/			1.33	13.29
Contracts:				
Fertilize (N)	119 lb.		14.25	142.50
Pick			10.00	100.00
Shell	35 cwt	.12	4.38	43.80
Haul	35 cwt	.10	3.50	35.00
Interest on operating capital c/			2.27	22.71
Total Variable			91.68	916.80
Total Cost			137.57	1,375.70

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5.5%.

Source: Calculated from survey data.

TABLE 12

Inputs and Costs for Producing Field Corn,
80-acre Farm

Item	Units used per acre	Unit price	Costs per farm
1	2	3	4
		Dollars	
FIXED:			
Real estate taxes		6.50	7.20
Office		2.04	2.10
Power			16.50
Equipment			12.00
Irrigation water			6.42
Total fixed			45.22
MATERIALS:			
Fuel:			
Gasoline [illegible]	[illegible]	[illegible]	[illegible]
Diesel fuel	[illegible]	[illegible]	[illegible]
Equipment:			
Plow, 2x\2-14"	[illegible]	[illegible]	[illegible]
7 1/2' offset disk	[illegible]	[illegible]	[illegible]
14' tandem disk	[illegible]	[illegible]	[illegible]
12' spike-tooth harrow	[illegible]	[illegible]	[illegible]
Corn planter	[illegible]	[illegible]	[illegible]
Corn cultivator	[illegible]	[illegible]	[illegible]
Rotary disk (rental)	[illegible]	[illegible]	[illegible]
Materials:			
Irrigation water	[illegible]	[illegible]	[illegible]
Seed	[illegible]	[illegible]	[illegible]
Labor:			
Drivers	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
Contract:			
Fertilize (N)	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
Shell	[illegible]	[illegible]	[illegible]
Haul	[illegible]	[illegible]	[illegible]
Interest on operating capital 5/			[illegible]
Total Variable			[illegible]
Total Cost			[illegible]

5/ Rounded.

[illegible] 5.0% x total labor costs.

6/ Total of variable costs (less operator labor) ÷ 2, x [illegible].

[illegible]

TABLE 13

Physical Resources and Investments for Typical 160-acre Farm, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
1	2	3	4	5	6	7
			dollars			
Land:						
Total	160 acres					
Total cultivated	146 acres					
Improvements:						
Tractor shed		1		750.00		375.00
Storage		1		1,500.00		750.00
Subtotal				2,250.00		1,125.00
Irrigation system:						
Pumping plant	30 h.p.; 900 g.p.m.	2	3,000.00	6,000.00	1,537.50	3,075.00
Well, casing	12" diameter; 80' lift	2x200'	4.15	1,660.00	2.08	830.00
Pipe	14'	3,600'	.90	3,240.00	.45	1,620.00
Stands	8' x 36"	2	72.00	144.00	36.00	72.00
Vents	8' x 8"	4	5.60	22.40	2.80	11.20
Alfalfa valves	10"	20	15.00	300.00	7.50	150.00
Siphons	3/4" - 2"	250	1.50	375.00	.75	187.50
Subtotal				11,741.40		5,945.70
Power:						
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				10,200.00		6,940.00
Equipment:						
Plow, 2 way	2-16"	1		550.00		275.00
Disk, offset	6'	1		485.00		242.50
Disk, tandem	8'	1		600.00		300.00
Border disk		1		175.00		87.50
Spiketooth harrow	4' section	4	30.00	120.00	15.00	60.00
Cultipacker	10'	1		325.00		162.50
Planter	4 row	1		500.00		250.00
Cultivator	4 row	1		1,000.00		500.00
Cotton trailer	4 bale	2	350.00	700.00	192.50	385.00
Stalk cutter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Ditcher b/	4'	1		135.00		67.50
Scraper b/	8'	1		485.00		242.50
Plow, 2 way b/	2 - 14"	1		453.00		226.50
Lister b/	4 row	1		350.00		175.00
Cultivator b/	2 row	1		350.00		175.00
Cotton trailer b/	6 bale	1		450.00		247.50
Subtotal				7,873.00		3,994.00
Total				32,064.40		18,004.70

a/ $\frac{\text{New cost + Salvage value}}{2}$

No salvage values, except as follows:

W-1 tractor:	$1040 each	W-2 tractor:	$1200
Pickup truck:	400	4-bale cotton trailer:	$35 each
6-bale cotton trailer:	70	Pumping plant:	$75 each

b/ Standby equipment owned but not used in 1953 or 1955.

[illegible] Resources and Inventories for Typical Lumber-Core Plant,

Item	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	2	3	4	5	6	7
				dollars		
Land:						
Tract 1	300 acres					
1 mile [illegible]	100 acres					
[illegible]						
[illegible] steel		1		780.00		275.00
Offices		1		1,500.00		[illegible]
Subtotal				2,[illegible]		1,[illegible]
[illegible]						
[illegible]	[illegible]	2	3,000.00	5,500.00	1,547.00	1,[illegible]
[illegible]	[illegible]	2400	4.[illegible]	1,600.00	2.00	[illegible]
[illegible]	[illegible]	[illegible]	.40	[illegible]	.45	1,[illegible]
[illegible]	[illegible]	2	72.00	[illegible]	36.00	72.00
[illegible]	[illegible]	4	[illegible]	[illegible]	2.60	1.[illegible]
[illegible]	[illegible]	20	15.00	300.00	7.00	150.[illegible]
[illegible]	[illegible]	250	1.50	375.00	.75	187.[illegible]
[illegible]				11,741.40		[illegible]
[illegible]						
[illegible]	[illegible]	2	2,000.00	5,500.00	1,050.00	3,[illegible]
[illegible]	[illegible]	1		3,000.00		2,[illegible]
[illegible]	[illegible]	1		[illegible]		[illegible]
[illegible]				10,[illegible]		[illegible]
[illegible]						
[illegible]	[illegible]	1		350.00		245.00
[illegible]	[illegible]	1		440.00		210.00
[illegible]	[illegible]	1		600.00		30.00
[illegible]		1		175.00		[illegible]
[illegible]	[illegible]	4	20.00	120.00	12.00	[illegible]
[illegible]	[illegible]	1		325.00		160.00
[illegible]	[illegible]	1		500.00		[illegible]
[illegible]	[illegible]	1		1,[illegible]		[illegible]
[illegible]	[illegible]	2	350.00	700.00	105.50	280.00
[illegible]	[illegible]	1		325.00		100.00
[illegible]	[illegible]	1		200.00		110.00
[illegible]	[illegible]	1		520.00		260.00
[illegible]	[illegible]	1		135.00		[illegible]
[illegible]	[illegible]	1		400.00		200.00
[illegible]	[illegible]	1		455.00		220.50
[illegible]	[illegible]	1		350.00		125.00
[illegible]	[illegible]	1		400.00		100.00
[illegible]	[illegible]	1		400.00		202.00

[illegible] Labor-saving items, [illegible] values, except as follows:

[illegible]-1 Weeder: [illegible] Weed W-2 tractor: [illegible]

[illegible] Hoop house: 400 4-hole cotton tailer: [illegible]

[illegible] 6-hole cotton tailer: 70 Packing shed: [illegible]

[illegible] equipment owned but not used in 1954 or 1955.

TABLE 14

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, 160-acre Farm

Dates	Operation	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
1	2	3	4	5	6	7	8	9	10
	Cut stalks	1	W-1	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	W-2	8' tandem	26	.70	.70		
	Plow	1	W-2	2 way/2-16"	10	.90	.90		
	Disk	1	W-1	6' offset disk	18	.50	.50		
	Border up	1	W-2	border disk	40	.22	.22		
	Preirrigate							6 ac.in.	6 ac.in.
	Disk 2X with harrow attached	1	W-2	6' offset disk w/8' spiketooth harrow	16	1.12	1.12		
4/10 - 4/20	Plant	2	W-2	4 row planter	29	.62	.31	30# delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-1	4 row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-1	4 row cultivator	22	.41	.41		
	Fertilize - Contract							88# (N)	109# (N)
6/15 - 6/30	Irrigate (1)							5 ac.in.	5 ac.in.
	Hand weed - Contract								
	Cultivate (3)	1	W-1	4 row cultivator	24	.38	.38		
6/15 - 8/15	Dust 2X - Contract							60# 5% DDT 50% S	
	Irrigate (2)							5 ac.in.	7.4 ac.in
7/10 - 7/26	Cultivate & lay by (4)	1	W-1	4 row cultivator	24	.38	.38		
7/20 - 9/5	Irrigate 4X (3-6)							20 ac.in.	20 ac.in.
10/1 - on	Pick 1st - Machine - Contract								
11/15 - on	Pick 2nd - Machine - Contract								
10/1 - on	Haul to gin	1	Pick-up	4 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

Source: Calculated from survey data.

TABLE 15

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa, 160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Irrigate 1X	1						5.5 ac. in.
4/5 - 4/15	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
5/15 - 5/25	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
6/20 - 6/30	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
7/20 - 7/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
9/25 - 10/10	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.

TABLE 16

Calendar of Operations and Physical Inputs Per Acre to Establish an Alfalfa Stand, 160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	W-2	8' tandem	26	.70	.70	
	Chisel 2X - Contract							
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	W-1	6' offset disk	18	.50	.50	
	Preirrigate							8 ac. in.
	Disk 2X with harrow	1	W-2	6' offset disk w/8' spiketooth	16	1.12	1.12	
2/1 - 3/15	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	16' spiketooth harrow	55	.16	.16	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.

TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn, 160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	W-2	8' tandem	26	.70	.70	
	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Disk	1	W-1	6' offset disk	18	.50	.50	
	Border up	1	W-2	border disk	40	.22	.22	
	Preirrigate							7 ac. in.
	Disk 2X w/harrow attached	1	W-2	6' offset disk w/8' spiketooth harrow	16	1.12	1.12	
3/25 - 4/10	Plant	2	W-2	4 row planter	29	.62	.31	10# seed
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
4/25 - 5/5	Fertilize - Contract							119# (N)
5/5 - 5/15	Irrigate	1						4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	22	.82	.82	
5/30 - 8/20	Irrigate 7X	1						28 ac. in.
9/15 - on	Pick & haul - Contract							
10/1 - on	Shell - Contract							

Source: Calculated from survey data.

TABLE 18

Inputs and Costs for Producing Cotton,
160-acre Farm

Item	1953 Acres: 99 — Yield: 1.3 bales				1955 Acres: 54 — Yield: 1.6 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.16	708.50		6.50	7.58	409.50
Office		1.54	1.59	157.19		1.54	1.66	89.38
Improvements		1.21	1.24	123.13		1.21	1.30	70.02
Power			13.51	1,337.49			15.63	844.02
Equipment			10.25	1,014.75			14.60	788.40
Irrigation water			7.34	726.66			7.60	410.40
TOTAL FIXED			41.09	4,067.72			48.37	2,611.72
VARIABLE:								
Power:								
W-1 tractor	2.89 hr.	.74	2.14	211.86	2.89 hr.	.80	2.31	124.74
W-2 tractor	3.25 hr.	.80	2.61	258.39	3.25 hr.	.81	2.65	143.10
Pickup truck	84 mi.	.03	2.93	290.07	106 mi.	.03	3.72	200.88
Equipment:								
Plow, 2w/2-16"	.90 hr.	.93	.83	82.17	.90 hr.	1.16	1.04	56.16
6' offset disk	1.62 hr.	.41	.67	66.33	1.62 hr.	.48	.79	42.66
8' tandem disk	.70 hr.	1.17	.82	81.18	.70 hr.	1.38	.97	52.38
Border disk	.22 hr.	.80	.18	17.82	.22 hr.	1.01	.22	11.88
8' spiketooth harrow	1.12 hr.	.02	.02	1.98	1.12 hr.	.02	.02	1.08
10' cultipacker	.27 hr.	1.22	.33	32.67	.27 hr.	2.23	.60	32.40
4-row planter	.31 hr.	.32	.10	9.90	.31 hr.	.41	.13	7.02
4-row cultivator	1.62 hr.	1.25	2.02	199.98	1.62 hr.	1.54	2.50	135.00
4-bale cotton trailer	1.50 hr.	.14	.21	20.79	1.50 hr.	.26	.39	21.06
2-row stalk cutter	.50 hr.	.33	.16	15.84	.50 hr.	.60	.30	16.20
Materials:								
Irrigation water	36 ac"	.30	10.80	1,069.20	38.4 ac"	.29	11.29	609.66
Seed (acid delint)	30 lb.	.08	2.40	237.60	30 lb.	.08	2.40	129.60
Labor:								
Drivers	9.57 hr.	1.00	9.57	947.43	10.10 hr.	1.00	10.10	545.40
Irrigators	13.50 hr.	.90	12.15	1,202.85	14.40 hr.	.90	12.96	699.84
General	.31 hr.	.90	.28	27.72	.31 hr.	.90	.28	15.12
Soc. Sec. & Comp. Insur. b/			1.28	126.32			1.35	73.10

(Continued on next page).

[illegible]

Table 18 continued.

Item	1953 Acres: 99 — Yield: 1.3 bales				1955 Acres: 54 — Yield: 1.6 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
Contracts:								
Fertilize (N)	88 lb.		10.74	1,063.26	109 lb.		12.95	699.30
Hand thin			5.00	495.00			5.00	270.00
Hand weed			5.00	495.00			5.00	270.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	801.90	60 lb.	.13	8.10	437.40
Pick 2X - machine	1.3 bale	24.50	31.85	3,153.15	1.6 bale	24.50	39.20	2,116.80
Gin	1.3 bale	14.70	19.11	1,891.89	1.6 bale	14.70	23.52	1,270.08
Insur. & storage	1.3 bale	1.19	1.55	153.45	1.6 bale	1.19	1.90	102.60
Interest on operating capital		c/	1.93	191.44			2.11	114.16
Total Variable			132.78	13,145.19			151.80	8,197.62
Total Cost			173.87	17,212.91			200.17	10,809.34

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5%.

Source: Calculated from survey data.

Table 18 continued.

	Units used	Unit cost	Total	Units used	Unit cost	Total
		Dollars			Percent	
1	2	3	4	5	6	7
Chemicals						
Fertilizer (N)	80 lb.	126.71	1,062.6	100 lb.		[illegible]
Seed oats		6.30	475.2		4.00	270.7
Corn seed		7.00	490.0		4.00	[illegible]
Cost TV (50% DDT - 50% sulfur)	60 lb.	.10	20.00	100 lb.	.12	[illegible]
Milk 2X - machine	1.3 hrs.	24.50	31.85	3,100.00	1.0 hrs.	25.00	[illegible]
Gin	1.4 hrs.	24.70	15.12	2,720.00	1.0 hrs.	24.70	[illegible]
Insure. & assess.	1.3 hrs.	1.25	1.65	372.4	1.0 hrs.	1.25	[illegible]
Interest on operating capital a/			[illegible]	[illegible]			[illegible]
Total Variable			[illegible]	[illegible]			[illegible]
Total Cost			173.87	1,7[illegible]		100.0	[illegible]

a/ Interest.

b/ 1/2% of total labor cost.

c/ Total of variable costs (less operator labor, stacking, and picking) ÷ x 100.

Source: Calculated from [illegible] data.

TABLE 19

Inputs and Costs for Producing Alfalfa,
160-acre Farm

Item	1953 Acres: 41 — Yield: 6.0 tons				1955 Acres: 55 — Yield: 6.25 tons			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	8.09	331.50		6.50	7.56	416.00
Office		1.54	1.65	67.81		1.54	1.65	90.93
Improvements		1.21	1.30	53.12		1.21	1.29	71.22
Power			8.52	349.32			10.16	558.80
Equipment			3.59	147.19			2.81	154.55
Irrigation water			10.40	426.40			10.10	555.50
1/4 cost to establish stand			11.98	491.42			12.20	670.91
TOTAL FIXED			45.53	1,866.76			45.77	2,517.91
VARIABLE:								
Power:								
W-1 tractor	3.60 hr.	.74	2.66	109.06	3.60 hr.	.80	2.87	157.85
Pickup truck	42 mi.	.03	1.46	59.86	53 mi.	.03	1.86	102.30
Equipment:								
7' power mower	1.86 hr.	.48	.90	36.90	1.86 hr.	.34	.64	35.20
8' side delivery rake	1.74 hr.	.73	1.27	52.07	1.74 hr.	.54	.95	52.25
Materials:								
Irrigation water	51 ac"	.30	15.30	627.30	51 ac"	.29	14.99	824.45
Labor:								
Drivers	4.65 hr.	1.00	4.65	190.65	4.93 hr.	1.00	4.93	271.15
Irrigators	19.13 hr.	.90	17.22	706.02	19.13 hr.	.90	17.22	947.10
Soc. Sec. & Comp. Insur. b/			1.27	52.01			1.28	70.66
Contracts:								
Bale	6.0 ton	3.50	21.00	861.00	6.25 ton	3.50	21.88	1,203.40
Roadside	6.0 ton	1.75	10.50	430.50	6.25 ton	1.75	10.94	601.70
Total Variable			76.23	3,125.37			77.56	4,266.06
Total Cost			121.76	4,992.13			123.33	6,783.97

a/ Rounded.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

Table 12

Inputs and Costs for Producing [illegible]
[illegible] Farm

Item	Units used per acre	Unit cost	Cost per acre	Total cost	Units used per acre 1/	Unit cost 1/	Cost per acre	Total cost
	[illegible]				[illegible]			
	[illegible]				[illegible]			
[illegible]:								
Hand [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]	[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]			[illegible]	[illegible]
Irrigation water			[illegible]	[illegible]			[illegible]	[illegible]
1/ Based on data [illegible]				[illegible]				[illegible]
[illegible]:								
[illegible]:								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]:								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total Variable				[illegible]				[illegible]
Total Cost				[illegible]				[illegible]

1/ [illegible].

2/ [illegible] x [illegible] lower cost.

[illegible]: [illegible] [illegible] [illegible].

TABLE 20

Inputs and Costs for Establishing an Alfalfa Stand,
160-acre Farm

Item	1953 Acres: 41 Units used per acre a/	1953 Unit cost a/	1953 Cost per acre	1953 Total cost	1955 Acres: 55 Units used per acre a/	1955 Unit cost a/	1955 Cost per acre	1955 Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
Power:								
W-1 tractor	.72 hr.	2.61	1.88	77.08	.72 hr.	2.98	2.15	118.25
W-2 tractor	1.98 hr.	2.19	4.34	177.94	1.98 hr.	2.27	4.49	246.95
Equipment:								
6' offset disk	1.62 hr.	.79	1.28	52.48	1.62 hr.	.93	1.51	83.05
8' tandem disk	.70 hr.	2.25	1.58	64.78	.70 hr.	2.65	1.85	101.75
8' spiketooth harrow	1.12 hr.	.12	.13	5.33	1.12 hr.	.14	.15	8.25
16' spiketooth harrow	.16 hr.	.24	.04	1.64	.16 hr.	.28	.04	2.20
Broadcaster (rented)	.22 hr.	.25	.06	2.46	.22 hr.	.25	.06	3.30
Materials:								
Irrigation water	8 ac"	.50	4.03	165.23	8 ac"	.49	3.94	216.70
Seed	25 lb.	.34	8.50	348.50	25 lb.	.34	8.50	467.50
Labor:								
Drivers	2.70 hr.	1.00	2.70	110.70	2.70 hr.	1.00	2.70	148.50
Irrigators	3.00 hr.	.90	2.70	110.70	3.00 hr.	.90	2.70	148.50
Soc. Sec. & Comp. Insur. b/			.31	12.84			.31	17.23
Contracts:								
Chisel 2X			5.50	225.50			5.50	302.50
Landplane 3X			12.00	492.00			12.00	660.00
Make borders			.75	30.75			.75	41.25
Dust (2% Parathion)	12.5 lb.		2.14	87.74	12.5 lb.		2.14	117.70
Total Cost			47.94	1,965.67			48.79	2,683.63
Amount Charged off Annually			11.98	491.42			12.20	670.91

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

Table 12

Budget Data on Costs for Rehabilitation on Irrigation Study,
[illegible] Farm

Item	Unit	Quantity per acre 1/	Unit cost 2/	Cost per acre	Total Labor hours per acre	Labor cost 3/	Total cost per acre
1		2	3		4	5	6
Equipment:							
Small tractor	[illegible] hr.	.75 hr.	[illegible]	[illegible]	.42 hr.	2.24	[illegible]
Medium tractor	[illegible] hr.	1.10	4.34	[illegible]	[illegible] hr.	2.07	4.49
Supplies:							
Oil [illegible] filter	[illegible] hr.	.70	[illegible]	[illegible]	1.02 hr.	.91	[illegible]
Oil [illegible]	.70 hr.	[illegible]	[illegible]	[illegible]	.70 hr.	[illegible]	[illegible]
Grease	1.12 hr.	.11	[illegible]	[illegible]	1.12 hr.	.75	[illegible]
Oil filters [illegible]	.16 hr.	.04	[illegible]	[illegible]	.16 hr.	.04	[illegible]
Operator (skilled)	.42 hr.	[illegible]	.06	[illegible]	.22 hr.	.25	[illegible]
Materials:							
Treated water	8 mgd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Seed	75 lb.	.34	[illegible]	[illegible]	75 lb.	.34	[illegible]
Other:							
Labor	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]
Irrig. time	[illegible] hr.	.07	[illegible]	[illegible]	.60 hr.	[illegible]	[illegible]
Other 4/:							
Oil [illegible] 5/			[illegible]	[illegible]		[illegible]	[illegible]
Employee [illegible]			[illegible]	[illegible]		[illegible]	[illegible]
Gas, fuel [illegible]			.75	[illegible]		.70	[illegible]
Rent (5% interest)	12.5 lb.		[illegible]	[illegible]	12.5 lb.	[illegible]	[illegible]
Total Cost				47.64	[illegible]	49.79	[illegible]
Amount [illegible] only				11.90	[illegible]	12.20	[illegible]

1/ Adjusted. Built costs for new equipment, equipment, and water equal [illegible] of unit fixed and unit [illegible].

2/ [illegible] total labor [illegible].

Source: Other based [illegible] data.

TABLE 21

Inputs and Costs for Producing Field Corn, 160-acre Farm

Item	1955 Acres: 25 — Yield: 35 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	8.58	214.50
Office		1.54	1.79	44.69
Improvements		1.21	1.40	35.01
Power			10.52	263.00
Equipment			8.30	207.50
Irrigation water			7.72	193.00
TOTAL FIXED			38.31	957.70
VARIABLE:				
Power:				
W-1 tractor	.50 hr.	.80	.40	10.00
W-2 tractor	4.93 hr.	.81	4.01	100.25
Pickup truck	52 mi.	.03	1.83	45.75
Equipment:				
Plow, 2w/2-16"	.90 hr.	1.16	1.04	26.00
6' offset disk	1.62 hr.	.49	.79	19.75
8' tandem disk	.70 hr.	1.38	.97	24.25
Border disk	.22 hr.	1.01	.22	5.50
8' spiketooth harrow	1.12 hr.	.02	.02	.50
4-row planter	.31 hr.	.41	.13	3.25
4-row cultivator	1.68 hr.	1.54	2.60	65.00
Materials:				
Irrigation water	39 ac"	.29	11.47	286.75
Seed	10 lb.	.26	2.60	65.00
Labor:				
Drivers	6.74 hr.	1.00	6.74	168.50
Irrigators	14.63 hr.	.90	13.17	329.25
General	.31 hr.	.90	.28	7.00
Soc. Sec. & Comp. Insur. b/			1.17	29.28
Contracts:				
Fertilize (N)	119 lb.		14.25	356.25
Pick			10.00	250.00
Shell	35 cwt	.12	4.38	109.50
Haul	35 cwt	.10	3.50	87.50
Interest on operating capital c/			2.00	50.07
Total Variable			81.57	2,039.35
Total Cost			119.88	2,997.05

a/ Rounded.
b/ 5.8% x total labor cost.
c/ Total of variable costs (less operator labor) ÷ 2, x 5.5%.
Source: Calculated from survey data.

[illegible]

Inputs and Costs for Products [illegible] Farms,
[illegible] Farm

Item	Inputs used per acre 2/	Unit cost 2/	Cost per [illegible]	Total cost
	[illegible]			
[illegible]				
Variable costs:				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
Variable costs:				
[illegible]				
Labor:				
[illegible]	.90 hr.	.20	.0	[illegible]
[illegible]	.03 hr.	.4	.01	[illegible]
[illegible]	50 mi.	.1	[illegible]	[illegible]
[illegible]				
Equipment:				
[illegible]	.90 hr.	1.16	[illegible]	[illegible]
[illegible]	1.02 hr.	.1	.1	[illegible]
[illegible]	.20 hr.	1.30	.07	[illegible]
[illegible]				
[illegible]	2.10 hr.	.02	.02	.30
[illegible]	.31 hr.	.21	.1	[illegible]
[illegible]	1.00 hr.	1.50	[illegible]	[illegible]
[illegible]				
Materials:				
[illegible]	[illegible]	.25	[illegible]	
[illegible]	10 lb.	.25	[illegible]	
[illegible]				
Fixed:				
[illegible]	6.74 hr.	1.0	[illegible]	[illegible]
[illegible]	11.52 hr.	.90	[illegible]	[illegible]
[illegible]	.31 hr.	.5	[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]				
Overhead:				
[illegible]	12.0 lb.			[illegible]
[illegible]				[illegible]
[illegible]				
[illegible]	75 cwt	.10		[illegible]
[illegible]	35 cwt	.10		[illegible]
[illegible]				[illegible]
Total Variable [illegible]				[illegible]
Total Costs			[illegible]	[illegible]

1/ [illegible].
2/ [illegible] x [illegible] cost.
3/ Total of variable costs (less operator labor) [illegible] x [illegible].
Source: Calculated from survey data.

TABLE 22

Physical Resources and Investments for Typical 320-acre Farms, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment[a] per unit	Average investment[a] total
1	2	3	4	5	6	7
			dollars			
Land:						
Total	320 acres					
Total cultivated	300 acres					
Improvements:						
Fuel storage - gas	350 gal.	1		110.00		55.00
Fuel storage - diesel	550 gal.	1		135.00		67.50
Subtotal				245.00		122.50
Irrigation system:						
Pumping plant	30 h.p.; 1200 g.p.m.	3	3,000.00	9,000.00	1,537.50	4,612.50
Well, casing	16" diameter; 80' lift	3x250'	7.90	5,925.00	3.95	2,962.50
Pipe	16"	5,280'	1.00	5,280.00	.50	2,640.00
Stands	8' x 36"	3	72.00	216.00	18.00	108.00
Vents	8' x 8"	4	5.60	22.40	2.80	11.20
Alfalfa valves	10"	40	15.00	600.00	7.50	300.00
Siphons	3/4" - 2"	300	1.50	450.00	.75	225.00
Subtotal				21,493.40		10,859.20
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup truck	1/2 ton	2	2,000.00	4,000.00	1,200.00	2,400.00
Subtotal				22,200.00		14,090.00
Equipment:						
Ditcher	5'	1		140.00		70.00
Scraper	10'	1		520.00		260.00
Plow, 2 way	2-16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	12'	1		1,050.00		525.00
Spiketooth harrow	4' section	6	30.00	180.00	15.00	90.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	4 row	1		1,000.00		500.00
Cotton picker	1 row	1		8,700.00		5,200.00
Cotton trailer	5 bale	6	400.00	2,400.00	220.00	1,320.00
Stalk cutter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Hay baler	2 wire	1		3,325.00		1,662.50
Plow, disk [b]	5 blade	1		1,400.00		700.00

(Continued on next page).

Chart C

Physical Resources and Investments for [illegible]
1955 Prices

Item	Size or Length	Number	Unit Price	Total Investment	Depreciation Per Year
Land:					
Total	320 acres				
Total cultivated	200 acres				
Improvements:					
Barns	300 sq.ft.				
Fuel storage -					
Total	950 sq.ft.				
Subtotal					
Irrigation system:					
Pumping plant	30 h.p. 1700 g.p.m.	3	3,200.00	9,600.00	1,227.50
[illegible]	[illegible]				
Pipe	10"	5,280'	1.00	5,280.00	.70
Stands	8' x 30"	3	72.00	216.00	14.00
Valve	8' x 6"	4	3.00	24.00	2.00
Alfalfa valves	10"	40	15.00	600.00	7.50
Siphons	1/4" - 1"	300	1.00	[illegible]	.75
Subtotal				21,[illegible]	
Power:					
Tractor	T-50	1		7,000.00	3,380.00
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,[illegible]
Wheel tractor	W-9 (20-25 h.p.)	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup truck	1/2 ton	2	2,000.00	4,000.00	1,700.00	2,400.00
Subtotal				22,200.00	14,[illegible]
Equipment:					
Mower	5'	1		140.00		70.00
Scraper	10'	1		520.00		260.00
Plows, 2 way	2-14"	1		550.00		275.00
Disc	6'	1		520.00		260.00
Drags, offset	12'	1		1,050.00		525.00
Spring-tooth harrow	4' section	6	30.00	180.00	18.00	90.00
Gang lister	12'	1		320.00		160.00
Lister planter	4 row	1		550.00		275.00
Cultivator	4 row	1		1,000.00		500.00
Cotton picker	1 row	1		1,[illegible]		5,[illegible]
Cotton trailer	5 bale	6	400.00	2,400.00	120.00	1,320.00
Sweep cutter	2 row	1		370.00		185.00
[illegible] mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Hay baler	2 wire	1		4,325.00		1,082.50
[illegible] weed 2/	5 blade	1		1,400.00		700.00

(Continued on next page).

Table 22 continued.

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
1	2	3	4	5	6	7
			dollars			
Equipment: (cont.)						
Disk, tandem b/	8'	1		600.00		300.00
Cultivator b/	2 row	1		350.00		175.00
Subtotal				22,865.00		12,422.50
1953 Total, 320-1 and 320-2 Farms				66,803.40		37,494.20
1955 Total, 320-1 Farm c/				67,528.40		37,856.70
1955 Total, 320-2 Farm d/				66,978.40		37,581.70

a/ $\frac{\text{New cost + Salvage value}}{2}$

No salvage values except as follows:

T-5D tractor:	$ 700	Cotton picker:	$1,740
W-1 tractors:	2,080 each	Cotton trailers:	240 each
W-2 tractors:	2,400 each	Hay baler:	665
Pickup trucks:	800 each		

b/ Standby equipment owned but not used in 1953 or 1955.

c/ The 320-1 farm purchased one 8' offset disk in 1955 (new cost: $725.00; average investment: $362.50).

d/ The 320-2 farm purchased one border disk in 1955 (new cost: $175.00; average investment: $87.50).

Source: Calculated from survey data.

Equipment: (cont.)				
Disk, tandem 2/	8'	1	400.00	
Cultivator 3/	2 row	1	250.00	
Subtotal			22,000.00	12,000.00
1955 Total, 320-1 and 320-2 farms			66,600.40	37,880.00
1955 Total, 320-1 farm 2/			67,528.40	37,880.20
1955 Total, 320-2 farm 4/			66,272.40	37,581.70

2/ New cost + 5 year's value

3/ Salvage values accepted as follows:

5-HP tractor:	$ 700	Cotton picker:	$1,740
3-1 tractors:	2,000 each	Cotton trailers:	240 each
3-2 tractors:	2,400 each	Hay baler:	665
Pickup truck:	800 each		

4/ Standby equipment owned but not used in 1955 or 1956.

5/ The 320-1 farm purchased one 8' offset disk in 1955 (new cost: $725.00; average

6/ The 320-2 farm purchased one border disk in 1955 (new cost: $175.00; average

Source: Calculated from survey data.

TABLE 23

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
1	2	3	4	5	6	7	8	9	10
	Cut stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	12' disk	34	.52	.52		
	Plow	1	T-5D	2 way/2-16"	12	.75	.75		
	Disk	1	T-5D	12' offset disk	34	.26	.26		
	Furrow out	1	W-2	4 row lister-planter	30	.30	.30		
	Make head ditches*	1	T-5D	5' ditcher		.20	.20		
	Preirrigate	1						6 ac.in.	6.4 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.20	.20		
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60		
4/1 - 4/15	Plant	2	W-2	4 row lister-planter	29	.62	.31	30# delint seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41		
	Fertilize - Contract							93# (N)	114# (N)
6/12 - 6/20	Irrigate (1)							5 ac.in.	6 ac.in.
	Hand weed - Contract								
	Cultivate (3)	1	W-2	4 row cultivator	26	.35	.35		
	Dust 2X - Contract							60# of 5% DDT 50% S	
	Irrigate (2)							5 ac.in.	6 ac.in.
7/10 - 7/20	Cultivate & lay by (4)	1	W-2	4 row cultivator	26	.35	.35		
7/20 - 9/5	Irrigate 4X	1						20 ac.in.	20 ac.in.
10/1 - on	Pick 1st - Machine	2	W-2	1 row cotton picker	6	3.00	1.50		
11/15 - on	Pick 2nd - Machine	2	W-2	1 row cotton picker	7	2.56	1.28		
10/1 - on	Haul to gin	1	Pick-up	5 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

*occurs 4X - man-hours & tractor-hours are total for season

Source: Calculated from survey data.

TABLE 24

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Irrigate 1X	1						5.5 ac. in.
4/5 - 4/15	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
5/15 - 5/25	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
6/20 - 6/30	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
7/20 - 7/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
9/25 - 10/10	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.

Exhibit 24

Calendar of Operations and Physical Impacts for Acre for Crop Year 2[illegible]

Date	Operations	Crew	Equipment	Man Power	Equipment	Per 9-hour day	Man-hours	Tractor hours
		1					7	8
	[illegible]	1						
4/5 - 4/15	Cut Jan	1						
	[illegible]	1	1-1	60' S. L. rake		31	.85	.85
	[illegible]	1	1-2	2 wire hay baler		72	.35	.37
	Industrial - Contract							
	[illegible] 24	1						
4/15 - 5/25	Cut Hay	1		72' power mower		40		
	[illegible]	1		60' S. D. rake		32		
	[illegible]	1		2 wire hay baler		23	.37	.39
	Industrial - Contract							
	[illegible]	1						
	[illegible]	1	1-2	72' power mower		38	.4[illegible]	.4[illegible]
	Rake	1	1-1	60' S. D. rake		31	.35	.41
	E 12	1	1-2	2 wire hay baler		23	.37	.39
	[illegible] 24	1						
	[illegible]	1	1-2	72' power mower		45	.41	.37
	Rake	1	1-1	60' S. D. rake		41	.35	.37
	Bale	1	1-2	2 wire hay baler		23	.37	.39
	Industrial - Contract							
	[illegible] 21	1						8 acs. 1[illegible]
8/20 - 8/30	Cut Jan							
	Rake	1	1-1	60' S. D. rake		21	.[illegible]	.35
	Bale	1	1-2	2 wire hay baler		23	.37	.39
	[illegible] - Contract							
	Irrigate 24	1						5 acs. 1[illegible]
9/25 - 10/10	Cut Alf	1	1-2	72' power mower		40	.34	.42
	[illegible]	1	1-1	60' S. D. rake		32	[illegible]	[illegible]
	[illegible]	1	[illegible]	2 wire hay baler		23	.37	.39
	Industrial - Contract							
	[illegible] 14	1						8.1 acs. 1[illegible]

TABLE 25

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa Stand, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	T-5D	12' offset disk	34	.26	.26	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	12' offset disk w/16' spiketooth	30	.30	.30	
2/1 - 3/15	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	16' spiketooth	55	.16	.16	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.

TABLE 26

Calendar of Operations and Physical Inputs Per Acre for Producing Milo, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	4 row lister-planter	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						5.8 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60	
5/1 - 6/1	Plant	2	W-2	4 row lister-planter	29	.62	.31	10# seed
5/25 - 6/20	Cultivate 2X	1	W-2	4 row cultivator	20	.90	.90	
6/1 - 6/25	Irrigate	1						4 ac. in.
6/5 - 6/30	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
6/15 - 9/10	Irrigate 4X	1						16 ac. in.
10/15 - 11/15	Harvest - Contract							
10/15 - 11/15	Haul - Contract							

* occurs 3X - man-hours and tractor-hours are total for season
Source: Calculated from survey data.

Calendar of Operations and Hybrid Inputs for Acre: for Producing 110,
720-acre Farm

Date	Operations	Man	Equipment	Acre-hour	Hybrid Fertilizer	Hybrid Insecticide
1	2	3	4	5	6	7
	Disk SX	1	T-30 42' of 3-bot disk	24	.32	.25
	Row	1	T-32 4 row 10-7	12	.17	.13
	Disk	1	T-30 4 row 1 tiller-planter	30	.40	.30
	Disk 24 with harrow 1 [illegible]	1	T-32 [illegible] disk w/16' harrow	20	.25	.20
5/12 - 5/21	Plant	2	T-2 4 row tiller-planter	25	.34	.31
5/25 - 6/20	Cultivate 2	1	T-2 4 row cultivator	20	.30	.20
[illegible]	Irrigate	1				
[illegible]	Cultivate	1	T-1 4 row cultivator	20	.27	.44
6/25 - [illegible]	Irrigate 4	1				
[illegible]	[illegible] - 4 [illegible]					
10/25 - [illegible]	Row - [illegible]					

Hybrid Fertilizer Insecticide

Acre-hour Man-hour Tractor-hour Equipment

Notes: 1 [illegible]

2 [illegible]

4 [illegible]

TABLE 27

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-5D	12' disk	34	.52	.52	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	8' offset disk	26	.35	.35	
	Furrow out	1	W-2	4 row lister-planter	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						7 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60	
3/25 - 4/10	Plant	2	W-2	4 row lister-planter	29	.62	.31	10# seed
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
4/25 - 5/5	Fertilize - Contract							119# (N)
5/5 - 5/15	Irrigate	1						4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	24	.76	.76	
5/30 - 8/20	Irrigate 7X	1						28 ac. in.
9/15 - on	Pick & haul - Contract							
10/1 - on	Shell - Contract							

*occurs 3X - man-hours & tractor-hours are total for season

Source: Calculated from survey data.

TABLE 28

Calendar of Operations and Physical Inputs Per Acre for Producing Barley, 320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
12/1 - 12/10	Disk	1	T-5D	12' offset disk	34	.26	.26	
12/5 - 12/15	Disk with harrow attachment	1	T-5D	12' offset disk w/16' spiketooth	30	.30	.30	
12/15 - 12/31	Seed	2	W-1	broadcaster (rented)	40	.44	.22	90# seed
	Harrow	1	T-5D	20' spiketooth harrow	60	.15	.15	
	Border up	1	W-2	border disk	40	.22	.22	
	Irrigate	1						6 ac. in.
	Irrigate	1						6 ac. in.
6/1 - 7/15	Harvest - Contract							
6/1 - 7/15	Haul - Contract							

Source: Calculated from survey data.

TABLE 30

Number of Operations and Power and Implements Per Acre for Producing Barley,

Items	Operations	Power and Implement			Acres per 8-hour day	Practical capacities	
		Number	Kind	Size		Man-hours	Tractor hours
1	2	3	4	5	6	7	8
12/6 - 12/20	Disk	1	T-50	14' offset disk	34	.85	.85
12/5 - 12/31	Disk with harrow attachment	1	T-40	12' offset disk (10' cultivation)	20	.50	.50
12/15 - 12/21	Seed	2	T-4	Drillmaster (combo)	12	.44	.22
	Roll	1	T-5	20' cultipacker harrow	50	.15	.15
	Harrow	1	T-2	Tandem disk	40	.27	.27
	Combine	1					
6/5 - 7/25	Harvest - Combine						
7/1 - 7/15	Haul - Combine						

Source: Calculated from survey data.

TABLE 29

Inputs and Costs for Producing Cotton,
320-acre Farms

Item	1953			
	320-1 and 320-2 Farms			
	Acres: 183 — Yield: 1.3 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
			dollars	
FIXED:				
Real estate taxes		6.50	7.39	1,352.00
Office		1.00	1.07	195.00
Improvements		.10	.11	19.91
Power			12.49	2,285.67
Equipment			17.78	3,253.74
Irrigation water			7.14	1,306.62
Total Fixed			45.98	8,412.94
VARIABLE:				
Power:				
T-5D tractor	2.53 hr.	.92	2.33	426.39
W-2 tractor	5.65 hr.	.86	4.88	893.04
Pickup truck	104 mi.	.03	3.42	625.86
Equipment:				
5' ditcher	.20 hr.	.11	.02	3.66
10' scraper	.20 hr.	.41	.08	14.64
Plow, 2w/2-16"	.75 hr.	.57	.43	78.69
12' offset disk	1.38 hr.	.55	.76	139.08
16' spiketooth harrow	.60 hr.	.03	.02	3.66
12' cultipacker	.20 hr.	1.04	.21	38.43
4-row lister planter	.61 hr.	.47	.28	51.24
4-row cultivator	1.56 hr.	.67	1.04	190.32
1-row cotton picker	2.78 hr.	2.86	7.95	1,454.85
5-bale cotton trailer	1.50 hr.	.26	.39	71.37
2-row stalk cutter	.50 hr.	.18	.09	16.47
Materials:				
Irrigation water	36 ac"	.22	8.10	1,482.30
Seed (acid delint)	30 lb.	.08	2.40	439.20
Labor:				
Drivers	12.14 hr.	1.00	12.14	2,221.62
Irrigators	13.50 hr.	.90	12.15	2,223.45
General	.31 hr.	.90	.28	51.24
Soc. Sec. & Comp. Insur. b/			1.42	260.79
Contracts:				
Fertilize (N)	93 lb.		11.26	2,060.58
Hand thin			5.00	915.00
Hand weed			5.00	915.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	1,482.30
Gin	1.3 bale	14.70	19.11	3,497.13
Insur. & storage	1.3 bale	1.19	1.55	283.65
Interest on operating capital c/			1.93	353.03
Total Variable			110.34	20,192.99
Total Cost			156.32	28,605.93

(Continued on next page.)

Inputs and Costs for Producing Cotton,
[illegible]-acre Farms

Item	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
Total [illegible]	[illegible]	[illegible]	7.39	[illegible]
[illegible]				
[illegible]		[illegible]	[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]				
Total [illegible]			[illegible]	[illegible]
[illegible]				
[illegible] tractor	[illegible] hr.	[illegible]	[illegible]	[illegible]
[illegible] tractor	[illegible] hr.	[illegible]	[illegible]	[illegible]
[illegible] truck	[illegible] mi.	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	.20 hr.	.11	.02	[illegible]
[illegible]	[illegible] hr.	.41	[illegible]	[illegible]
[illegible]				
[illegible]	1.16 hr.	[illegible]	.10	[illegible]
[illegible]	.60 hr.	.32	.02	2.06
[illegible]	.40 hr.	1.04	.21	[illegible]
[illegible]				
[illegible]	[illegible] hr.	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	.10 hr.	.18	.00	[illegible]
[illegible]	[illegible]	.72	[illegible]	[illegible]
[illegible]	30 lb.	.08	2.00	[illegible]
[illegible]				
[illegible]	12.14 hr.	1.00	[illegible]	[illegible]
[illegible]		[illegible]		
[illegible]				
[illegible]			1.27	[illegible]
[illegible]				
[illegible]	[illegible] lb.		11.65	[illegible]
[illegible]				
[illegible]			6.00	[illegible]
[illegible]	60 lb.	.13	8.10	[illegible]
[illegible]	1.3 [illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
Interest on operating capital [illegible]				
Total [illegible]				

(Continued on next page.)

Table 29 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 100 — Yield: 1.4 bales				Acres: 100 — Yield: 1.4 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.70	769.60		6.50	7.07	707.20
Office		1.00	1.11	111.00		1.00	1.02	102.00
Improvements		.10	.11	11.33			.10	10.41
Power			15.00	1,500.00			17.61	1,761.00
Equipment			28.85	2,885.00			31.12	3,112.00
Irrigation water			6.99	699.00			8.45	845.00
TOTAL FIXED			59.76	5,975.93			65.37	6,537.61
VARIABLE:								
Power:								
T-5D tractor	2.53 hr.	.94	2.38	238.00	2.53 hr.	1.10	2.78	278.00
W-2 tractor	5.65 hr.	.81	4.57	457.00	5.65 hr.	.85	4.81	481.00
Pickup truck	130 mi.	.03	4.28	428.00	123 mi.	.03	4.06	406.00
Equipment:								
3' ditcher	.20 hr.	.13	.03	3.00	.20 hr.	.21	.04	4.00
10' scraper	.20 hr.	.48	.10	10.00	.20 hr.	.78	.16	16.00
Plow, 2w/2-16"	.75 hr.	.60	.45	45.00	.75 hr.	1.10	.82	82.00
12' offset disk	1.38 hr.	.62	.85	85.00	1.38 hr.	.72	.99	99.00
16' spiketooth harrow	.60 hr.	.03	.02	2.00	.60 hr.	.03	.02	2.00
12' cultipacker	.20 hr.	1.90	.38	38.00	.20 hr.	1.90	.38	38.00
4-row lister planter	.61 hr.	.49	.30	30.00	.61 hr.	.90	.55	55.00
1-row cultivator	1.56 hr.	.69	1.07	107.00	1.56 hr.	1.28	2.00	200.00
1-row cotton picker	2.78 hr.	5.23	14.55	1,455.00	2.78 hr.	5.23	14.55	1,455.00
5-bale cotton trailer	1.50 hr.	.48	.72	72.00	1.50 hr.	.48	.72	72.00
2-row stalk cutter	.50 hr.	.32	.16	16.00	.50 hr.	.32	.16	16.00
Materials:								
Irrigation water	38.4 ac"	.22	8.56	856.00	38.4 ac"	.25	9.48	948.00
Seed (acid delint)	30 lb.	.08	2.40	240.00	30 lb.	.08	2.40	240.00
Labor:								
Drivers	12.78 hr.	1.00	12.78	1,278.00	12.62 hr.	1.00	12.62	1,262.00
Irrigators	14.40 hr.	.90	12.96	1,296.00	14.40 hr.	.90	12.96	1,296.00
General	.31 hr.	.90	.28	28.00	.31 hr.	.90	.28	28.00
Soc. Sec. & Comp. Insur. b/			1.51	150.92			1.50	149.99

(Continued on next page).

[illegible]

Table 29 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 100 — Yield: 1.4 bales				Acres: 100 — Yield: 1.4 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
Contracts:								
Fertilize (N)	114 lb.		13.47	1,347.00	114 lb.		13.47	1,347.00
Hand thin			5.00	500.00			5.00	500.00
Hand weed			5.00	500.00			5.00	500.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	810.00	60 lb.	.13	8.10	810.00
Gin	1.4 bale	14.70	20.58	2,058.00	1.4 bale	14.70	20.58	2,058.00
Insur. & Storage	1.4 bale	1.19	1.67	167.00	1.4 bale	1.19	1.67	167.00
Interest on operating capital c/			2.22	222.02			2.30	229.67
Total Variable			124.39	12,438.94			127.40	12,739.66
Total Cost			184.15	18,414.87			192.77	19,277.27

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5%.

Source: Calculated from survey data.

Item	Units used per acre a/	Cost per unit a/	Total cost per acre	Units used per acre a/	Cost per unit a/	Total cost per acre
1	2	3	4	5	6	7
	Dollars			Dollars		
Labor:						
Preplanting (H)	11.- lb.			14.- lb.		
Land tile						
Hand weed						
Post 2X (Sx FDC - for autumn)	60.00	.13			.12	
Tie						
Insec. & Stress Interrich on						
Operating capital a/						
Total cost						

a/ Acre x total labor cost.

a/ Total of variable costs (less harvest labor, standard, and picking) ÷ 2, x 100.

TABLE 30

Inputs and Costs for Producing Alfalfa,
320-acre Farms

Item	1953 320-1 and 320-2 Farms Acres: 87 — Yield: 6.0 tons			
	Inputs used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	7.41	644.80
Office		1.00	1.07	93.00
Improvements		.10	.11	9.50
Power			12.95	1,126.65
Equipment			9.74	847.38
Irrigation water			9.49	825.63
1/4 cost to establish stand			11.55	1,004.98
TOTAL FIXED			52.32	4,551.94
VARIABLE:				
Power:				
W-1 tractor	3.60 hr.	.78	2.80	243.60
W-2 tractor	2.34 hr.	.86	2.02	175.74
Pickup truck	52 mi.	.03	1.71	148.77
Equipment:				
7' power mower	1.86 hr.	.22	.40	34.80
8' side delivery rake	1.74 hr.	.34	.60	52.20
2-wire hay baler	2.34 hr.	.82	1.91	166.17
Materials:				
Irrigation water	51 ac"	.22	11.48	998.76
Wire	6.00 ton	.50	3.00	261.00
Labor:				
Driver	7.24 hr.	1.00	7.24	629.88
Irrigator	19.14 hr.	.90	17.23	1,499.01
Soc. Sec. & Comp. Insur. b/			1.42	123.48
Contracts:				
Roadside	6.0 ton	1.75	10.50	913.50
Total Variable			60.31	5,246.91
Total Cost			112.63	9,798.85

(Continued on next page.)

Table 20

Inputs and Costs for Production Activities
[illegible]

Item	[illegible]	[illegible]	[illegible]	Total
	Per acre $\underline{1}/$	Amount $\underline{2}/$	Cost per acre	cost
	1	2	3	4
Seed [illegible]		0.70	7.21	[illegible]
[illegible]				
[illegible]				
[illegible]				
[illegible]			12.07	[illegible]
[illegible]			0.	[illegible]
[illegible]			1.40	885.65
[illegible]			14.00	2,[illegible].70
[illegible]			32.32	4,[illegible].04
[illegible]:				
[illegible]:				
[illegible]	3.[illegible] hr.	.[illegible]	.80	2[illegible].[illegible]
[illegible]	2.[illegible] hr.	.06	.[illegible]	[illegible]
[illegible]	[illegible]	.02	1.17	[illegible]
[illegible]:				
[illegible]	[illegible] hr.	.42	.[illegible]	[illegible]
[illegible]	1.[illegible] hr.	.24	.[illegible]	[illegible]
[illegible]	2.4 hr.	.02	1.[illegible]	[illegible]
[illegible]:				
[illegible]	[illegible] acr	.02	11.68	2[illegible].[illegible]
[illegible]	6.00 ton	.50	7.00	[illegible].00
[illegible]:				
[illegible]	2.04 hr.	1.00	7.24	[illegible]
Sec. Sub. & Contr. Inserv. $\underline{3}/$			1.12	[illegible]
Contingency	4.[illegible] ton	1.[illegible]	1.[illegible]	[illegible].[illegible]
			[illegible].[illegible]	[illegible]
			112.63	9,[illegible].[illegible]

(Continued on next page.)

Table 30 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 87 — Yield: 6.25 tons				Acres: 87 — Yield: 6.25 tons			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
FIXED:								
Real estate taxes		6.50	7.65	665.60		6.50	7.17	624.00
Office		1.00	1.10	96.00		1.00	1.03	90.00
Improvements		.10	.11	9.80		.10	.11	9.19
Power			13.96	1,214.52			13.71	1,192.77
Equipment			9.49	825.63			9.67	841.29
Irrigation water			9.28	807.36			11.22	976.14
1/4 cost to establish stand			11.63	1,011.94			12.28	1,068.71
TOTAL FIXED			53.22	4,630.85			55.19	4,802.10
VARIABLE:								
Power:								
W-1 tractor	3.60 hr.	.78	2.80	243.60	3.60 hr.	.75	2.71	235.77
W-2 tractor	2.34 hr.	.81	1.89	164.43	2.34 hr.	.85	1.99	173.13
Pickup truck	65 mi.	.03	2.14	186.18	62 mi.	.03	2.03	176.61
Equipment:								
7' power mower	1.86 hr.	.22	.40	34.80	1.86 hr.	.22	.40	34.80
8' side delivery rake	1.74 hr.	.34	.60	52.20	1.74 hr.	.34	.60	52.20
2-wire hay baler	2.34 hr.	.82	1.91	166.17	2.34 hr.	.82	1.91	166.17
Materials:								
Irrigation water	51 ac"	.22	11.37	989.19	51 ac"	.25	12.60	1,096.20
Wire	6.25 ton	.50	3.12	271.44	6.25 ton	.50	3.12	271.44
Labor:								
Driver	7.56 hr.	1.00	7.56	657.72	7.48 hr.	1.00	7.48	650.76
Irrigator	19.14 hr.	.90	17.23	1,499.01	19.14 hr.	.90	17.23	1,499.01
Soc. Sec. & Comp. Insur. b/			1.44	125.09			1.43	124.69
Contracts:								
Roadside	6.25 ton	1.75	10.94	951.78	6.25 ton	1.75	10.94	951.78
Total Variable			61.40	5,341.61			62.44	5,432.56
Total Cost			114.62	9,972.46			117.63	10,234.66

a/ Rounded.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

TABLE 31

Inputs and Costs for Establishing an Alfalfa Stand, 320-acre Farms

Item	1953 320-1 and 320-2 Farms Acres: 87			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
Power:				
T-5D tractor	2.20 hr.	2.70	5.93	515.91
W-1 tractor	.22 hr.	3.36	.74	64.38
W-2 tractor	.16 hr.	1.62	.26	22.62
Equipment:				
8' chisel	1.12 hr.	5.12	5.73	498.51
12' offset disk	1.08 hr.	1.05	1.14	99.18
16' spiketooth harrow	.46 hr.	.18	.08	6.96
Broadcaster (rented)	.22 hr.	.25	.06	5.22
Materials:				
Irrigation water	8 ac"	.41	3.29	286.23
Seed	25 lb.	.34	8.50	739.50
Labor:				
Driver	2.58 hr.	1.00	2.58	224.46
Irrigator	3.00 hr.	.90	2.70	234.90
Soc. Sec. & Comp. Insur. b/			.31	26.64
Contracts:				
Landplane 3X			12.00	1,044.00
Make borders			.75	65.25
Dust (2% Parathion)	12.5 lb.		2.14	186.18
Total Cost			46.21	4,019.94
Amount Charged off Annually			11.55	1,004.98

(Continued on next page.)

Table 2

Inputs and Costs for Establishing [illegible]

Item	Unit	Quantity per acre 1/	Unit cost 2/	Cost per acre	[illegible]
	1	2	3	4	5
Labor:					
W-5 inoculator	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
W-1 inoculator	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]					
[illegible]					
Lot [illegible] lanew	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
Preseeding (pre-emt)	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Irrigation water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Seed	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Labor:					
Irrigr	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
Irrigator	[illegible] hr.	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] 3/				[illegible]	[illegible]
[illegible]					
Costs [illegible]:					
Insecticide DY				[illegible]	[illegible]
[illegible]				[illegible]	[illegible]
[illegible]					
Tax (at Irrigation)	[illegible]			[illegible]	[illegible]
Total Costs				[illegible]	[illegible]
Income [illegible]				[illegible]	[illegible]

(Continued on next page.)

Table 31 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 87				Acres: 87			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
Power:								
T-5D tractor	2.20 hr.	2.81	6.17	536.79	2.20 hr.	3.64	8.02	697.74
W-1 tractor	.22 hr.	3.36	.74	64.38	.22 hr.	3.17	.70	60.90
W-2 tractor	.16 hr.	1.80	.29	25.23	.16 hr.	2.05	.33	28.71
Equipment:								
8' chisel	1.12 hr.	5.12	5.73	498.51	1.12 hr.	5.12	5.73	498.51
12' offset disk	1.08 hr.	1.19	1.28	111.36	1.08 hr.	1.38	1.49	129.63
16' spiketooth harrow	.46 hr.	.08	.04	3.48	.46 hr.	.18	.09	7.83
Broadcaster (rented)	.22 hr.	.25	.06	5.22	.22 hr.	.25	.06	5.22
Materials:								
Irrigation water	8 ac"	.40	3.24	281.88	8 ac"	.47	3.74	325.38
Seed	25 lb.	.34	8.50	739.50	25 lb.	.34	8.50	739.50
Labor:								
Driver	2.58 hr.	1.00	2.58	224.46	2.58 hr.	1.00	2.58	224.46
Irrigator	3.00 hr.	.90	2.70	234.90	3.00 hr.	.90	2.70	234.90
Soc. Sec. & Comp. Insur. b/			.31	26.64			.31	26.64
Contracts:								
Landplane 3X			12.00	1,044.00			12.00	1,044.00
Make borders			.75	65.25			.75	65.25
Dust (2% Parathion)	12.5 lb.		2.14	186.18	12.5 lb.		2.14	186.18
Total Cost			46.53	4,047.78			49.14	4,274.85
Amount Charged off Annually			11.63	1,011.94			12.28	1,068.71

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

Table 7. continued.

Item	1965											
	Adams: 07						Adams: 07					
	Units used per acre	Unit cost	Cost per acre	Total cost	Units used per acre	Unit cost	Cost per acre	Total cost	Units used per acre	Unit cost	Cost per acre	Total cost
	dollars				dollars				dollars			
Equipment:												
1-T. tractor	6.20 hr.	2.51	6.17	[illegible]	2.20 hr.	[illegible]	0.02	[illegible]				
1-T. tractor	.72 hr.	7.56	.74	(4.38)	.22 hr.	4.27	.70	80.60				
1-T. tractor	.14 hr.	1.60	.26	2.23	.10 hr.	5.05	.38	28.71				
Implements:												
12' offset disk	.60 hr.	1.15	1.28	1.07	[illegible]	[illegible]	1.46	129.02				
10' spike-tooth harrow	.08 hr.	.08	.04	.44	.40 hr.	.18	.03	7.83				
Stranddrier (rental)	.20 hr.	.5	.06	0.07	.22 hr.	.25	.06	5.22				
Hand lab:												
Harvesting crew	0 hrs.	.41	3.24	2.13.00	0 hrs.	.47	3.74	115.80				
Sub. Inc. & Ovr. Tractor 1/			.71	26.44			.47	[illegible]				
Inputs:												
Fertilizer 2X			1.00	1,044.00			12.03	1,344.00				
Seed bushels			.75	46.35			.75	46.35				
Fuel (2% Fuel/Lb.) 12.0 lb.			1.14	33.40	12.5 lb.		2.14	12.14				
Total Cost of Production			11.63	1,411.64				[illegible]				

a/ Rounded. Cost used for power, equipment, and other equal amount of unit fixed and unit variable cost.

b/ 5.20 x (adj.) [illegible] cost.

Source: Calculated from survey data.

TABLE 32

Inputs and Costs for Producing Milo,
320-acre Farms

Item	1953 320-1 and 320-2 Farms Acres: 10 — Yield: 24 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	8.32	83.20
Office		1.00	1.20	12.00
Improvements		.10	.12	1.22
Power			7.47	74.70
Equipment			3.29	32.90
Irrigation water			4.80	48.00
TOTAL FIXED			25.20	252.02
VARIABLE:				
Power:				
T-5D tractor	2.47 hr.	.92	2.27	22.70
W-2 tractor	1.62 hr.	.86	1.40	14.00
Pickup truck	52 mi.	.03	1.71	17.10
Equipment:				
5' ditcher	.15 hr.	.11	.02	.20
10' scraper	.15 hr.	.41	.06	.60
Plow, 2w/2-16"	.75 hr.	.57	.43	4.30
12' offset disk	1.12 hr.	.55	.61	6.10
16' spiketooth harrow	.60 hr.	.03	.02	.20
4-row lister planter	.61 hr.	.47	.28	2.80
4-row cultivator	1.31 hr.	.67	.88	8.80
Materials:				
Irrigation water	25.8 ac"	.22	5.80	58.00
Seed	10 lb.	.08	.80	8.00
Labor:				
Driver	5.39 hr.	1.00	5.39	53.90
Irrigator	9.69 hr.	.90	8.72	87.20
General	.31 hr.	.90	.28	2.80
Soc. Sec. & Comp. Insur. b/			.84	8.35
Contracts:				
Harvest	24 cwt	.10	6.00	60.00
Haul	24 cwt	.14	2.40	24.00
Storage			3.46	34.60
Insurance ($1.50/$100 of value)			.99	9.90
Interest on operating capital c/			.92	9.24
Total Variable			43.28	432.79
Total Cost			68.48	684.81

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5%.

Source: Calculated from survey data.

TABLE 33

Inputs and Costs for Producing Field Corn,
320-1 Farm

Item	1955 Acres: 83 — Yield: 35 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	7.77	644.80
Office		1.00	1.12	93.00
Improvements		.10	.11	9.50
Power			9.24	766.92
Equipment			5.25	435.75
Irrigation water			7.10	589.30
TOTAL FIXED			30.59	2,539.27
VARIABLE:				
Power:				
T-5D tractor	2.52 hr.	.94	2.37	196.71
W-2 tractor	2.23 hr.	.81	1.80	149.40
Pickup truck	65 mi.	.03	2.14	177.62
Equipment:				
5' ditcher	.15 hr.	.13	.02	1.66
10' scraper	.15 hr.	.48	.07	5.81
Plow, 2w/2-16"	.75 hr.	.60	.45	37.35
8' offset disk	.35 hr.	3.74	1.31	108.73
12' offset disk	1.12 hr.	.62	.69	57.27
16' spiketooth harrow	.60 hr.	.03	.02	1.66
4-row lister planter	.61 hr.	.49	.30	24.90
4-row cultivator	1.62 hr.	.69	1.12	92.96
Materials:				
Irrigation water	39 ac"	.22	8.70	722.10
Seed	10 lb.	.26	2.60	215.80
Labor:				
Drivers	6.37 hr.	1.00	6.37	528.71
Irrigators	14.64 hr.	.90	13.18	1,093.94
General	.31 hr.	.90	.28	23.24
Soc. Sec. & Comp. Insur. b/			1.15	95.46
Contracts:				
Fertilize (N)	119 lb.		14.25	1,182.75
Pick			10.00	830.00
Shell	35 cwt	.12	4.38	363.54
Haul	35 cwt	.10	3.50	290.50
Interest on operating capital c/			1.71	141.78
Total Variable			76.41	6,341.89
Total Cost			107.00	8,881.16

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5%.

Source: Calculated from survey data.

TABLE 34

Inputs and Costs for Producing Barley,
320-2 Farm

Item	1955 Acres: 103 — Yield: 23 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
		dollars		
FIXED:				
Real estate taxes		6.50	7.27	748.80
Office		1.00	1.05	108.00
Improvements		.10	.11	11.03
Power			4.81	495.43
Equipment			1.97	202.91
Irrigation water			2.64	271.92
TOTAL FIXED			17.85	1,838.09
VARIABLE:				
Power:				
T-5D tractor	.71 hr.	1.10	.78	80.34
W-1 tractor	.22 hr.	.75	.17	17.51
W-2 tractor	.22 hr.	.85	.19	19.57
Pickup truck	62 mi.	.03	2.03	209.09
Equipment:				
12' offset disk	.56 hr.	.72	.40	41.20
Border disk	.22 hr.	.77	.17	17.51
16' spiketooth harrow	.30 hr.	.03	.01	1.03
20' spiketooth harrow	.15 hr.	.04	.01	1.03
Broadcaster (rented)	.22 hr.	.25	.06	6.18
Materials:				
Irrigation water	12 ac"	.25	2.96	304.88
Seed	90 lb.	.04	3.60	370.80
Labor:				
Driver	2.69 hr.	1.00	2.69	277.07
Irrigator	4.50 hr.	.90	4.05	417.15
General	.22 hr.	.90	.20	20.60
Soc. Sec. & Comp. Insur. b/			.40	41.46
Contracts:				
Harvest			5.00	515.00
Haul	23 cwt	.10	2.30	236.90
Storage	23 cwt	.14	3.31	340.93
Insurance ($1.50/$100 value)			.74	76.22
Interest on operating capital c/			.66	67.91
Total Variable			29.73	3,062.38
Total Cost			47.58	4,900.47

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5%.

Source: Calculated from survey data.

[illegible]

[illegible]

[illegible]

Item	Per acre 1/	Costs 2/	Acre	Cost
[illegible]				
Seed potatoes	6.10	7.27		74.[illegible]
Fertilizer	1.00	.05		10.[illegible]
Insecticides	.10	.12		1[illegible].08
Equipment		1.57		[illegible]
[illegible]				
Labor:				
1-2D harvester	.71 hr.	1.10	.78	[illegible]
1-1 loader box	[illegible] hr.	.75	.17	[illegible]
1-2 tractors	[illegible] hr.	.65	.15	[illegible]
1-2 pickup trucks	[illegible] hr.	.05	7.03	[illegible]
[illegible]				
1-1 [illegible] disk	.05 hr.	.12	.04	[illegible]
1-[illegible] disk	[illegible] hr.	[illegible]	.17	[illegible]
1-1 spring-tooth harrow	[illegible] hr.	.03	.03	[illegible]
1-1 [illegible] harrow	.15 hr.	.04	.01	[illegible]
[illegible] ([illegible])	.06 hr.	.15	.05	[illegible]
[illegible]:				
Irrigation water	12 [illegible]	.25	2.[illegible]	[illegible]
Seed	20 lb.	.04	3.00	[illegible]
Labor:				
[illegible]	2.[illegible] hr.	1.00	2.[illegible]	[illegible]
[illegible]	[illegible] hr.	.10	4.[illegible]	[illegible]
[illegible]	[illegible] hr.	.50	.20	[illegible]
[illegible]			5.50	[illegible]
[illegible]	25 [illegible]	.10	2.50	[illegible]
Interest on operating capital 4/			[illegible]	[illegible]
Total costs			[illegible]	[illegible]

1/ [illegible].

2/ [illegible] x total labor costs.

3/ Total of variable costs (less operator labor) ÷ 2, + 5%.

TABLE 35

Farm Product Selling Prices, 1953 and 1955

Product	Unit	1955	1953
1	2	3	4
Alfalfa hay	ton	$ 26.00	$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt	2.15	2.70
Corn	cwt	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt	2.30	2.75
Potatoes (early)	cwt	1.85	1.42
Sugar beets	ton	13.50	13.50

TABLE 36

Farm Service Purchasing Prices, 1953-1955

Labor Rates

1	2	3
Tractor driver		$1.00 per hr.
Pickup driver		1.00 per hr.
Truck driver		1.00 per hr.
Irrigator		.90 per hr.
General		.90 per hr.
Compensation Insurance		3.8% of labor cost
Social Security		2.0% of labor cost

Equipment Rentals

4' ditcher	$ .50 per hr.
4' scraper	.50 per hr.
10' x 60' landplane	2.00 per hr.
Border disk	.50 per hr.
12' springtooth	.50 per hr.
2 row planter	.50 per hr.
Fertilizer attachment	.50 per hr.
Fertilizer spreader	1.00 per hr.
Stalk cutter	1.00 per hr.
Broadcaster	.25 per hr.

Contract Services

Alfalfa

Bale	ton	3.50
Roadside	ton	1.75
Bees	colony	5.00
Weed	acre	15.00
Harvest	lb.	.03
Certify	acre	10.12
Box rental	acre	1.00
Fertilize (super phosphate)-(application)	acre	1.10

Contract Services (continued)

4	5	6
Dust (5% DDT - 75% S)-(application)	lb.	$ .04
Defoliate (1 qt. sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Dust (2% Parathion)-(appln.)	lb.	.05

Barley

Harvest	acre	5.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	

Corn

Chop, haul, unload	ton	2.25
Shell	cwt	.125
Pick	acre	10.00
Haul	cwt	.10
Dry	cwt	.175
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	
Fertilize (NH_3)-(appln.)	acre	1.75

Cotton

Hand thin	acre	5.00
Hand weed	acre	5.00
Pick (hand)	bale	42.00
Pick (machine)	bale	24.50
Gin	bale	14.70
Insurance & Storage	bale	1.19
Dust (5% DDT - 50% S)-(application)	lb.	.05
Defoliate ($NaClO_3$ w/Borate or Mg)-(application)	acre	2.50
Fertilize (NH_3)-(appln.)	acre	1.50
Gypsum - (application)	ton	1.50

Table 36
—continued—

Farm Service Purchasing Prices, 1953-1955

Contract Services (continued)

1	2	3
Melons		
Turn vines	acre	$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & Haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP- (appln.)	lb.	.05
Fertilize (NH_3)-(appln.)	acre	1.25
Milo		
Harvest	acre	6.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	$1.50 per $100 of Value	
Potatoes		
Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt	.16
Haul	cwt	.075
Shed costs	cwt	.55
Dust (5% DDT - 50% S)-(application)	lb.	.05

Contract Services (continued)

4	5	6
Sugar Beets		
Thin	acre	$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH_3)-(appln.)	acre	1.25
Preparing Seedbed		
Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75

TABLE 37

Farm Materials Purchasing Prices, 1953-1955

Alfalfa 1	2	3
Seed (common)	lb.	$ .32
Seed (caliverde)	lb.	.34
Seed (certified ranger)	lb.	.40
Fertilizer (super phosphate)	lb.	.020
Dust (5% DDT - 75% S)	lb.	.0925
Dust (2% Parathion)	lb.	.121
Sinox Defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90
Baling Wire	ton	.50
Barley		
Seed	lb.	.04
Corn		
Seed	lb.	.26
Fertilizer (NH_4SO_4)	lb.	.032
Fertilizer (NH_3)	lb.	.105
Cotton		
Seed (acid delinted)	lb.	.115
Seed (machine delinted)	lb.	.081
Fertilizer (NH_4SO_4)	lb.	.032
Dust (5% DDT - 50% S)	lb.	.085
Defoliant ($NaClO_3$ w/ Borate or Mg)	lb.	.175
Fertilizer (NH_3)		1/
Gypsum	ton	2.50

Melons 4	5	6
Seed	lb.	$1.45
Dust 5% DDT	lb.	.07
1% TEPP	lb.	.16
Fertilizer (NH_3)	lb.	.085
Milo		
Seed	lb.	.08
Permanent Pasture		
Seed	lb.	.50
Fertilizer (16-20)	lb.	.045
Potatoes		
Seed (cut & dipped)	cwt	6.30
Fertilizer (17-7-0)	lb.	.0375
Dust (5% DDT - 50% S)	lb.	.085
Sugar Beets		
Seed	lb.	.46
Fertilizer (NH_3)	lb.	.095

1/ $ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .085/lb. for 50 tons and over.

[illegible]					
1	2	3	4	5	6
Seed (summer)	lb.	4.37	Seed	lb.	[illegible]
Seed (cultivated)	lb.	.24	Dust ([illegible])	lb.	.07
Seed (naturalized meadow)	lb.	.40	[illegible]	lb.	.16
Fertilizer (super phosphate)	lb.	.09	Fertilizer (MgO_2)	lb.	.05
Dust ([illegible])	lb.	.0085	Milk		
Milk ([illegible])	lb.	.121	Seed	lb.	.04
Minor Materials (1 qt. applied in 10 gal. diesel oil)	qt.	2.50	Sorghum silage		
Selling Time	ton	.50	Seed	lb.	.10
Barley			Fertilizer ([illegible])	lb.	.005
Seed	lb.	.3			
Corn			Seed (oat & clover)	oz.	[illegible]
Seed	lb.	[illegible]	Fertilizer ([illegible])	lb.	.0005
Fertilizer ($MgSO_4$)	lb.	.07	Dust ([illegible])	oz.	.009
Fertilizer (MgS_2)	lb.	.105			
Cotton			Seed	lb.	.15
Seed (acid delinted)	lb.	.115	Fertilizer (MgS_2)	lb.	.005
Seed (machine delinted)	lb.	.04			
Fertilizer ($MgSO_4$)	lb.	.02			
Dust ([illegible])	lb.	.005			
[illegible]					
Seed ([illegible])	lb.	.17			
Fertilizer (MgS_2)		1/			
[illegible]	ton	2.[illegible]			

1/ [illegible] .17 lb. for 1-24 tons; .09 lb. for 25-40 tons; .0[illegible] lb. for 50 tons and over.

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

4. Central San Joaquin Valley Cotton Farms, 1953–1955

Douglas D. Caton
Trimble R. Hedges
W. Neill Schaller

CALIFORNIA AGRICULTURAL EXPERIMENT STATION
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS
In Cooperation with FARM ECONOMICS RESEARCH DIVISION
AGRICULTURAL RESEARCH SERVICE, U.S.D.A.
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H. Russell Shaw and J. Herbert Snyder, Assistant Professors of Agricultural Economics, Assistant Agricultural Economists in the Experiment Station, and on the Giannini Foundation, contributed heavily in collecting the field data. Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation, shared in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head, Western Field Research Section, and M. L. Upchurch, Head, Western Field Research Section, all of the Farm Economics Research Division, participated in outlining and developing the project research plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

Finally the credit for the statistical and stenographic work goes to personnel in the Giannini Foundation.

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Charles C. Carey, Assistant Specialist in the Extension Service and in the Giannini Foundation, shared in the analysis.

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CONTENTS

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

4. Central San Joaquin Valley Cotton Farms; 1953-1955[1/]

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller[2/]

FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Central San Joaquin Valley. We obtained these data by interviewing farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160-, and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Tables 1-3 present factual information obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. They indicate farm size, numbers, and cropland use from 1953 to 1955. Succeeding tables deal with the three farm size models that we analyzed. The data for the 80-acre unit will serve to indicate the kind and amount of information that this report includes for each of the three farm sizes. First appears Table 4. Physical Resources and Investments for the Typical 80-acre Farm, 1955 prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-13 include the physical inputs and costs for producing cotton and other crops on the 80-acre farm model.

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1/ This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 4. Central San Joaquin Valley Cotton Farms, 1953-1955, Giannini Mimeographed Report No. 208, the fourth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(W), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

2/ Douglas D. Caton and W. Neill Schaller are Agricultural Economists, Farm Economics Research Division, Western Field Research Section, Agricultural Research Service, U. S. Department of Agriculture, and Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings
Under 1956 Cotton Acreage Allotments)

4. Central San Joaquin Valley Cotton Farms, 1954-1955[1]

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller[2]

Preface

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Central San Joaquin Valley. We obtained these data by interviewing farmers and from official sources related to agriculture. The information is cast here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160-, and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these times sizes. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Tables 1-3 present factual information obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. They indicate farm size, numbers, and crop land use from 1950 to 1955. Succeeding tables deal with the three farm size models that we analyzed. The data for the 80-acre unit will serve to indicate the kind and amount of information that this report includes for each of the three farm size . First appears Table 4. Physical Resources and Investments for the Typical 80-acre farm, 1955 prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-13 indicate the physical inputs and costs for producing cotton and other crops on the 80-acre farm model.

Trimble R. Hedges, and W. Neill Schaller, Farm [illegible]
[illegible], Mimeographed report No. 206, the fourth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE 60-3(4), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

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Subsequent tables repeat this same sequence for each of the other two farm sizes (Tables 14-25 for the two 160-acre models, and Tables 26-39 for the 320-acre unit).

The last three tables in this statistical supplement contain the prices for farm products (Table 40), input services hired or rented (Table 41), and materials (Table 42).

TABLE 1

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955, Central San Joaquin Valley

Cropland class intervals	Number of farms	Cropland		Total cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 a/	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 20	310	14.2	4,392	2,447	2,385	3,053	2,343	606	- 104
21 - 60	491	39.4	19,359	10,138	8,847	7,804	5,988	- 2,334	- 4,150
61 - 100	271	78.4	21,241	11,010	8,839	7,569	5,807	- 3,441	- 5,203
101 - 220	307	150.0	46,064	21,350	18,276	14,933	11,457	- 6,417	- 9,893
221 - 420	156	295.6	46,113	22,028	17,958	14,787	11,345	- 7,241	-10,683
421 - 660	75	523.8	39,284	17,000	14,251	11,835	9,080	- 5,165	- 7,920
661 - 1,100	49	886.4	43,434	16,168	12,565	11,460	8,793	- 4,708	- 7,375
1,101 + above	52	2,570.2	133,652	36,741	30,418	25,920	19,887	-10,821	-16,854
Total	1,711	206.6	353,539	136,882	113,539	97,361	74,700	-39,521	-62,182

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee.

TABLE 2

Land Use on Cotton Farms, 1953-1955:
Central San Joaquin Valley

Cropland class interval	Mid-point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
			total	average	number reporting	total acres	number reporting	total acres	total acres reported	average acres per farm
	1	2	3	4	5	6	7	8	9	10
1 - 20	10	28	410	14.6	14	406	4	29	845	30.2
21 - 60	40	77	3,044	39.5	21	317	19	120	3,481	45.2
61 - 100	80	61	4,921	80.7	18	927	20	340	6,188	101.4
101 - 220	160	68	10,385	152.7	5	251	21	376	11,012	161.9
221 - 420	320	36	10,582	293.9	7	531	12	630	11,743	326.2
421 - 660	540	20	10,660	533.0	4	167	9	519	11,346	567.3
661 - 10,000	5330	19	31,538	1,659.9			7	11,379	42,917	2,258.8
Total		309	71,540	231.5	69	2,599	92	13,393	87,532	283.3

Source: Questionnaire returns, 1954.

TABLE 2

Land Use on Cotton Farms, 1963-1965:

TABLE 3

Farm Size, Average Cotton Acres, and Acres Diverted, 1954 and 1955:
Central San Joaquin Valley

Cropland class intervals	Number of farms	Cropland		Average cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 a/	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 20	310	14.2	4,392	7.9	11.5	9.8	7.6	1.95	- .34
21 - 60	491	39.4	19,359	20.6	26.2	15.9	12.2	- 4.75	- 8.45
61 - 100	271	78.4	21,241	40.6	46.0	27.9	21.4	- 12.70	- 19.20
101 - 220	307	150.0	46,064	69.5	76.5	48.6	37.3	- 20.90	- 32.22
221 - 420	156	295.6	46,113	141.2	140.3	94.8	72.7	- 46.42	- 68.48
421 - 660	75	523.8	39,284	226.7	222.7	157.8	121.1	- 68.87	-105.60
661 - 1,100	49	886.4	43,434	330.0	322.2	233.9	179.4	- 96.08	-150.51
1,101 + above	52	2,570.2	133,652	706.6	691.3	498.5	382.4	-208.10	-324.12
Total	1,711	206.6	353,539	80.0	90.8	56.9	43.7	- 23.10	- 36.34

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee.

TABLE 4

Physical Resources and Investments for Typical 80-acre Farm, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment[a] per unit	Average investment[a] total
	1	2	3	4	5	6
			dollars			
Land:						
Total	80 acres					
Total cultivated	74 acres					
Improvements:						
Tractor shed		1		500.00		250.00
Shop storage shed		1		1,000.00		500.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Subtotal				1,635.00		817.50
Irrigation system:						
Pumping plant	15 h.p.; 500 g.p.m.	2	1,675.00	3,350.00	858.44	1,716.88
Well, casing	12" diameter; 90' lift	2 x 175'	4.15	1,452.50	2.08	726.25
Pipe	12"	2,640'	.80	2,112.00	.40	1,056.00
Stands	7' x 36"	2	63.00	126.00	31.50	63.00
Vents	7' x 8"	2	4.90	9.80	2.45	4.90
Alfalfa valves	12"	40	18.56	742.40	9.28	371.20
Siphons	1 1/2"	100	1.50	150.00	.75	75.00
Subtotal				7,942.70		4,013.23
Power:						
Wheel tractor - A	W-1	1		2,600.00		1,820.00
Wheel tractor - B	W-1	1		2,000.00		1,400.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				6,600.00		4,420.00
Equipment:						
Plow, 2 way	2-16"	1		550.00		275.00
Disk, offset	5' 3"	1		300.00		150.00
Disk, tandem	6'	1		400.00		200.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	2-row	1		350.00		175.00
Cultivator	2-row	1		350.00		175.00
Cotton trailer	5-bale	1		400.00		220.00
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Subtotal				3,635.00		1,837.50
Total				19,812.70		11,088.23

a/ $\frac{\text{New cost + Salvage value}}{2}$

No salvage values, except as follows: W-1 tractor - A: $1,040; W-1 tractor - B: $ 800; Pickup truck: $ 400; 5-bale cotton trailer: $40; Pumping plant: $80 each

Source: Calculated from survey data.

TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton
80-acre Farm

Dates	Operations	Crew and equipment: men	Crew and equipment: power	Crew and equipment: equipment	Acres per 9-hour day	Physical requirements: man-hours	Physical requirements: tractor hours	Physical requirements: material 1953	Physical requirements: material 1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-1	2-row stalk cutter (rented)	18	.50	.50		
	Disk 2X	1	W-1	5'3" offset disk	16	1.12	1.12		
	Plow	1	W-1	2 way/2-16"	7	1.28	1.28		
	Furrow out	1	W-1	2-row lister-planter	18	.50	.50		
	Make head ditches*	1	W-1	4' ditcher (rented)		.25	.25		
	Preirrigate	1						4.2 ac.in.	5 ac.in.
	Fill in ditches*	1	W-1	4' scraper (rented)		.25	.25		
	Disk 2X w/harrow	1	W-1	6' tandem disk w/8' spiketooth	15	1.20	1.20		
4/1-4/15	Plant	2	W-1	2-row lister-planter	16	1.12	.56	35# delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
4/25-5/5	Cultivate (1)	1	W-1	2-row cultivator	10	.90	.90		
	Hand thin - contract								
	Cultivate (2)	1	W-1	2-row cultivator	12	.75	.75		
	Cultivate & fertilize (3)	1	W-1	2-row cultivator w/ fertilizer attachment (rented)	12	.75	.75	325# $(NH_4)_2SO_4$	333# $(NH_4)_2SO_4$
6/1-6/10	Irrigate (1)							3 ac.in.	3 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-1	2-row cultivator	14	.64	.64		
	Irrigate (2)							3 ac.in.	3 ac.in.
	Cultivate (5)	1	W-1	2-row cultivator	14	.64	.64		
7/1-8/15	Dust 2X - contract							60# 5% DDT	50% S
	Irrigate (3)							3 ac.in.	3 ac.in.
7/10-7/20	Cultivate and lay by(6)	1	W-1	2-row cultivator	14	.64	.64		
7/20-9/15	Irrigate 8X (4-11)							18 ac.in.	22 ac.in.
	1st pick, hand-contract								
	2nd pick, hand-contract								
	Haul to gin	1	Pickup	5-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

* Occurs 5X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 2

Statement of Operations and Minimal Tableau Test Data for Microcode Control

80-386 Family

TABLE 6

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Irrigate 1X	1						4.4 ac. in.
5/1-5/20	Cut*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
6/1-6/20	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
7/1-7/20	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
8/1-8/20	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
9/1-9/20	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

* No cutting for first year of stand.

Source: Calculated from survey data.

Calendar of Operations and Physical Inputs per Acre for Producing Alfalfa
Hay

Date	Operations	Crew and equipment: Man-	Crew and equipment: Equipment	Crew and equipment: Crew-equipment	Acres per 9-hour day	Labor: Man-hours	Labor: Tractor hours	Remarks
	1	2	3	4				
	Irrigate 1X	1						4.4 ac. in.
5/1-5/20	Cut*	1	M-1	7' power mower	29	.31	.31	
	Rake	1	M-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
6/1-6/20	Cut 2nd	1	M-1	7' power mower	29	.31	.31	
	Rake	1	M-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
7/1-7/20	Cut 3rd	1	M-1	7' power mower	29	.31	.31	
	Rake	1	M-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						10.5 ac. in.
8/1-8/20	Cut 4th	1	M-1	7' power mower	29	.31	.31	
	Rake	1	M-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X	1						[illegible]
9/1-9/20	Cut 5th	1	M-1	7' power mower	29	.31	.31	
	Rake	1	M-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X	1						[illegible] ac. in.

* No cutting for first year of stand.

Source: Calculated from survey data.

TABLE 7

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa Stand
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X - contract							
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	W-1	5'3" offset disk	16	.56	.56	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-1	5'3" offset w/8' spiketooth	14	.64	.64	
2/1-3/15	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth	40	.22	.22	
	Dust - contract							12.5# of 2% parathion

Source: Calculated from survey data.

Table 7

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa Stand
Lassen Farm

Month	Operation	Number	Implement	Size	Depth	Speed	Time	Fuel
	Disk 2X - contract							
	Cultivate 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	W-1	5'3" offset disk	16	.56	.56	8 gal. in.
	Preirrigate	1						
	Disk with harrow	1	W-1	5'3" offset w/6' spiketooth	14	.64	.64	
2/1-3/15	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	2.5 gal
	Harrow	1	W-1	12' spiketooth	40	.22	.22	
	Cost - contract							12.5% of 2X cultivation

TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	W-1	5'3" offset disk	16	1.12	1.12	
	Plow	1	W-1	2 way/2-16"	7	1.28	1.28	
	Furrow out	1	W-1	2-row lister-planter	18	.50	.50	
	Make head ditches*	1	W-1	4' ditcher (rented)		.15	.15	
	Preirrigate							6 ac. in.
	Fill in ditches*	1	W-1	4' scraper (rented)		.15	.15	
	Disk 2X w/harrow	1	W-1	6' tandem disk w/8' spiketooth	15	1.20	1.20	
3/25-4/10	Plant	2	W-1	2-row lister-planter	16	1.12	.56	10# seed
4/10-4/25	Cultivate	1	W-1	2-row cultivator	10	.90	.90	
4/25-5/10	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
5/10-5/25	Cultivate & fertilize	1	W-1	2-row cultivator w/ fertilizer attachment (rented)	10	.90	.90	475# $(NH_4)_2 SO_4$
5/25-6/10	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
6/1-6/15	Irrigate (1)	1						5 ac. in.
6/10-6/25	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
6/15-9/1	Irrigate 5X							25 ac. in.
9/20-10/20	Pick & haul - contract							
	Shell - contract							

* Occurs 3X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn
80-acre farm

Date	Operation	Crew and equipment			Acres per 9-hour day	Physical inputs per acre	
						Man-hours	Tractor hours	Implements
	1	2	3	4	5	6	7	
	Disk 75%	1	M-1	5'3" offset disk	16	1.12	1.12	
	Plow	1	M-1	2 way\2-16"	7	1.28	1.28	
	Borrow out	1	M-1	2-row lister-planter	18	.50	.50	
	Make head ditches*	1	M-1	4' ditcher (rented)		.15	.15	
	Preirrigate							
	Fill in ditches*	1	M-1	4' scraper (rented)		.15	.15	
	Dial 3% grade	1				.40		
	Pickstorm							
	Plant		M-1					
4\10-4\25	Cultivate	1	M-1	2-row cultivator	10	.90	.90	
4\25-5\10	Cultivate	1	M-1	2-row cultivator	12	.75	.75	
5\10-5\25	Cultivate & fertilize	1	M-1	2-row cultivator w\ fertilizer attachment (rented)	10	.90	.90	6'5" $(M_4)_2$ S_4
5\25-6\10	Cultivate	1	M-1	2-row cultivator	12	.75	.75	
6\1-6\15	Irrigate (1)	1						5 sec. in.
6\10-6\25	Cultivate	1	M-1	2-row cultivator	12	.75	.75	
6\15-6\1	Irrigate 5%							25 sec. in.
7\20-10\20	Pick & haul - contract							
	Shell - contract							

* Crews 3% - man-hours and tractor-hours are total for season.

TABLE 9

Inputs and Costs for Producing Cotton,
80-acre Farm

Item	1953				1955			
	Acres: 42 — Yield: 1.25 bales				Acres: 23 — Yield: 1.50 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.18	301.60		6.50	7.23	166.40
Office		2.03	2.07	87.00		2.03	2.09	48.00
Improvements		1.82	1.86	9.41		1.82	1.87	26.88
Power			16.13	677.46			24.58	565.34
Equipment			8.29	348.18			11.95	274.85
Irrigation water			7.02	294.84			7.20	165.60
Total fixed			42.55	1,718.49			54.92	1,247.07
VARIABLE:								
Power:								
Tractor W-1 - A	10.25 hr.	.56	5.77	242.34	10.25 hr.	.71	7.24	166.52
Pickup truck	131.57 mi.	.04	5.00	210.00	156.26 mi.	.04	5.94	136.62
Equipment (owned):								
Plow, 2w/2-16"	1.28 hr.	1.37	1.75	73.50	1.28 hr.	1.70	2.17	49.91
5'3" offset disk	1.12 hr.	.75	.84	35.28	1.12 hr.	.85	.95	21.85
6' tandem disk	1.20 hr.	1.06	1.28	53.76	1.20 hr.	1.32	1.58	36.34
8' spiketooth harrow	1.20 hr.	.03	.03	1.26	1.20 hr.	.03	.04	.92
10' cultipacker	.27 hr.	2.87	.77	32.34	.27 hr.	5.23	1.41	32.43
2-row lister planter	1.06 hr.	.70	.74	31.08	1.06 hr.	.87	.92	21.16
2-row cultivator	4.32 hr.	.35	1.50	63.00	4.32 hr.	.44	1.89	43.47
5-bale cotton trailer	1.50 hr.	.19	.29	12.18	1.50 hr.	.35	.52	11.96
Equipment (rented):								
4' ditcher	.25 hr.	.50	.12	5.04	.25 hr.	.50	.12	2.76
4' scraper	.25 hr.	.50	.12	5.04	.25 hr.	.50	.12	2.76
Fertilizer attach.	.75 hr.	.50	.38	15.96	.75 hr.	.50	.38	8.74
2-row stalk cutter	.50 hr.	1.00	.50	21.00	.50 hr.	1.00	.50	11.50
Materials:								
Irrigation water	31.2 ac."	.30	9.45	396.90	36 ac."	.28	10.26	235.98
Seed (machine delint)	35 lb.	.08	2.80	117.60	35 lb.	.08	2.80	64.40
Fertilizer $(NH_4)_2SO_4$	325 lb.	.03	10.40	436.80	333 lb.	.03	10.66	245.18
Labor:								
Drivers	14.91 hr.	1.00	14.91	626.22	15.51 hr.	1.00	15.51	356.73
Irrigators	14.04 hr.	.90	12.64	530.88	16.20 hr.	.90	14.58	335.34
General	.56 hr.	.90	.50	21.00	.56 hr.	.90	.50	11.50
Soc. Sec. & Comp. Insur. b/			1.63	68.33			1.77	40.81

(Continued on next page.)

TABLE 9.

Fixed and Costs for Producing Cotton,
Co-store Farm

Item	1929						1930			
	Acres: 32 — Yield: 1.25 bales				Acres: 41 — Yield: 1.0 bales					
	Units used per acre/	Unit costs/	Costs per acre	Total costs	Units used per acre/	Unit costs/	Costs per acre	Total costs
	Dollars							
Fixed:								
Real estate taxes		6.50	7.18	301.60		6.50	7.23	1,[illegible]
Office		2.03	2.07	87.00		2.03	2.03	48.[illegible]
Improvements		1.02	1.86	3.42		1.86	1.87	32.08
Power			16.13	677.46			24.52	5[illegible].14
Equipment			8.29	348.18			11.95	27[illegible].65
Irrigation water			7.02	294.84			7.20	1[illegible]
Total fixed			42.55	1,718.49			54.02	1,2[illegible]
Variable:								
Power:								
Tractor (-1 - A	10.75 hr.	.56	6.17	242.24	10.25 hr.	.71	7.24	1[illegible]
Stationary motor	131.57 mi.	.04	5.00	210.00	156.20 mi.	.04	5.94	1[illegible]
Implements (owned):								
2-row, 2-m/2-row	1.28 hr.	1.27	1.75	73.50	1.28 hr.	1.70	2.17	4[illegible].91
5'3" disc-type disk	1.12 hr.	.75	.84	35.28	1.12 hr.	.65	.85	21.63
6' tandem disk	1.20 hr.	1.06	1.28	53.76	1.20 hr.	1.42	1.58	[illegible]
6' spike-tooth harrow	1.20 hr.	.03	.03	1.26	1.20 hr.	.03	.04	.9[illegible]
[illegible]								
2-row lister								
planter	1.06 hr.	.20	.24	31.08	1.06 hr.	.87	.92	21.16
2-row cultivator	4.32 hr.	.35	1.50	63.00	4.32 hr.	.44	1.89	43.[illegible]
5-hole cotton thrasher	1.50 hr.	.13	.20	12.18	1.50 hr.	.35	.52	1[illegible].36
[illegible]								
4' ditcher	.25 hr.	.50	.12	5.04	.25 hr.	.50	.12	2.7[illegible]
4' scraper	.25 hr.	.40	.12	5.04	.25 hr.	.50	.12	2.76
Terrifier attach.	.75 hr.	.10	.08	15.96	.75 hr.	.50	.38	8.74
2-row stalk cutter	.50 hr.	1.00	.50	21.00	.50 hr.	1.00	.50	11.50
[illegible]								
Irrigation water	31.2 ac.'	.30	9.45	396.90	30 ac.'	.28	10.26	2[illegible].[illegible]
Hand (machine defoliate)	25 lb.	.08	2.80	117.60	35 lb.	.08	2.80	[illegible]
Fertilizer ($NH_4)_2SO_4$	325 lb.	.03	10.40	436.80	323 lb.	.03	10.66	2[illegible]
Labor:								
Drivers	14.91 hr.	1.00	14.91	626.22	15.51 hr.	1.20	15.51	[illegible]
Tractorsters	14.[illegible] hr.	.90	12.64	530.28	16.20 hr.	.90	14.[illegible]	3[illegible]
General	.54 hr.	.90	.50	21.00	.56 hr.	.90	.50	1[illegible]
Soc. Sec. & Comp. Insur. b/			1.63	68.32			1.77	[illegible]

(Continued on next page.)

Table 9 continued.

Item	1953				1955			
	Acres: 42 -- Yield: 1.25 bales				Acres: 23 -- Yield: 1.50 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
Contracts:								
Hand thin			5.00	210.00			5.00	115.00
Hand weed			5.00	210.00			5.00	115.00
Dust 2X (5% DDT 50% S)	60 lb.	.14	8.10	340.20	60 lb.	.14	8.10	186.30
Pick - hand	1.25 bale	42.00	52.50	2,205.00	1.50 bale	42.00	63.00	1,449.00
Gin	1.25 bale	14.70	18.38	771.96	1.50 bale	14.70	22.05	507.15
Insur. & storage	1.25 bale	1.19	1.49	62.58	1.50 bale	1.19	1.79	41.17
Interest on operating capital c/			2.09	87.89			2.32	53.28
Total variable			163.98	6,887.14			187.12	4,303.78
Total cost			206.53	8,605.63			242.04	5,550.85

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5 percent.

Source: Calculated from survey data.

Table 9 continued.

Item	Year 1				Year 2			
	42 -- Yields: 1.25 tons				Borer: 23 -- Yields: 1.75 tons			
	Units	Price per unit	Units used per acre 2/	Cost 3/	Units used per acre 2/	Price per unit	Cost 3/	Total cost
	1	2	3	4	5	6	7	8
	Dollars				Dollars			
Continued:								
Land prep.								
Dust 2% (5% DDT 50% S)	60 lbs.	.24	8.10	1.94	340.20	60 lbs.	.24	14.40
Plot - hand	1.25 hrs	42.00	52.50	2,205.00	1.50 hrs	42.00	63.00	2,646.00
Sum	1.25 hrs	14.70	[illegible]	[illegible]	[illegible]	14.70	[illegible]	[illegible]
Labor, & storage	1.25 hrs	1.25	1.[illegible]	[illegible]	1.50 hrs	[illegible]	[illegible]	[illegible]
Total variable 5/			[illegible]	[illegible]			[illegible]	[illegible]
Total cost				[illegible]			[illegible]	[illegible]

1/ Rounded.

2/ 5.8 percent x total labor cost.

3/ Total of variable costs (less operator labor, hauling, and picking) + 2, x 5.8 percent.

[illegible] Not [illegible] Data.

TABLE 10

Inputs and Costs for Producing Alfalfa
80-acre Farm

Item	1953				1955			
	Acres: 25 — Yield: 5.25 tons				Acres: 35 — Yield: 5.5 tons			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars					dollars	
FIXED:								
Real estate taxes		6.50	7.28	182.00		6.50	7.13	249.60
Office		2.03	2.10	52.50		2.03	2.06	72.00
Improvements		1.82	1.88	47.03		1.82	1.79	64.50
Power			10.14	253.50			7.77	271.95
Equipment			4.40	110.00			3.15	110.25
Irrigation water			9.99	249.75			8.88	310.80
1/4 cost to establish stand			12.10	302.58			11.52	403.23
Total fixed			47.89	1,197.36			42.30	1,482.33
VARIABLE:								
Power:								
Tractor W-1 - B	3.00 hr.	1.11	3.32	83.00	3.00 hr.	.77	2.31	80.85
Pickup truck	65.80 mi.	.04	2.50	62.50	78.13 mi.	.04	2.97	103.95
Equipment:								
7' power mower	1.55 hr.	.90	1.40	35.00	1.55 hr.	.64	1.00	35.00
8' side delivery rake	1.45 hr.	1.44	2.08	52.00	1.45 hr.	1.02	1.48	51.80
Materials:								
Irrigation water	44.4 ac."	.30	13.45	336.25	44.4 ac."	.28	12.65	442.75
Labor:								
Driver	4.64 hr.	1.00	4.64	116.00	4.95 hr.	1.00	4.95	173.25
Irrigators	19.98 hr.	.90	17.98	449.50	19.98 hr.	.90	17.98	629.30
Soc. Sec. & Comp. Insur. b/			1.31	32.80			1.33	46.55
Contracts:								
Bale	5.25 ton	3.50	18.38	459.50	5.50 ton	3.50	19.25	673.75
Roadside c/	5.25 ton	1.75	9.19	229.75	5.50 ton	1.75	9.63	337.05
Total variable			74.25	1,856.30			73.55	2,574.25
Total cost			122.14	3,053.66			115.85	4,056.58

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.

TABLE 10

Inputs and Costs for Producing Alfalfa
"D-Acre Farm

Item	1983				1984			
	Acres: [illegible] — Yield: 5.25 tons				Acres: [illegible] — Yield: [illegible] tons			
	1	2	3	4	5	6	7	8
	Inputs							
Fixed:								
Real estate taxes		6.50	7.28	182.00		6.80	7.22	[illegible]
Office		2.03	2.10	52.50		[illegible]	[illegible]	[illegible]
Improvements		1.26	1.28	42.02		[illegible]	1.70	[illegible]
Power			10.14	203.50			[illegible]	[illegible]
Equipment			4.40	110.00			[illegible]	[illegible]
			[illegible]	[illegible]			[illegible]	[illegible]
1/ Cost to establish stand			12.10	[illegible]			[illegible]	[illegible]
Total fixed			47.00	1,197.30			[illegible]	1,[illegible]
Variable:								
Fuel:								
Tractor 6-1 - P	3.00 hr.	1.11	1.32	63.00	3.00 hr.	[illegible]	[illegible]	[illegible]
Pickup truck	[illegible] mi.	.04	2.50	62.50	76.13 mi.	[illegible]	[illegible]	[illegible]
2/ Irrigat.								
1/ power mower	1.55 hr.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8/ side delivery rake	1.45 hr.	1.44	2.08	52.00	1.45 hr.	[illegible]	[illegible]	[illegible]
Irrigation water	44.4 ac.'	.30	12.45	336.25	44.4 ac.'	.70	[illegible]	[illegible]
Seed	[illegible] lbs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2/ Fertilizer	10.40 hr.	.00	17.08	444.50	19.08 hr.	[illegible]	[illegible]	[illegible]
Sec. Gen. & Corp. Inc. 3/			1.21	32.00			[illegible]	10.00
Contracts:								
Hay	5.25 ton	3.50	18.30	[illegible]	5.50 ton	[illegible]	[illegible]	[illegible]
Roadside 3/		[illegible]	0.14	[illegible]	5.50 ton	[illegible]	[illegible]	[illegible]
Total variable			[illegible]	[illegible]			[illegible]	[illegible]
Total			[illegible]	[illegible]			[illegible]	[illegible]

1/ [illegible]

2/ 60 percent x total labor costs.

3/ Use a bushing of baled hay adjacent to a road.

Source: Calculated from survey data.

TABLE 11

Inputs and Costs for Establishing an Alfalfa Stand
80-acre Farm

Item	1953 Acres: 25 Units used per acre a/	Unit cost a/	Cost per acre	Total cost	1955 Acres: 35 Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Power:								
Tractor W-1 - B	1.64 hr.	3.21	5.27	131.75	1.64 hr.	1.85	3.03	106.05
Equipment:								
5'3" offset disk	1.20 hr.	1.38	1.66	41.50	1.20 hr.	1.56	1.88	65.80
8' spiketooth harrow	.64 hr.	.16	.10	2.50	.64 hr.	.19	.12	4.20
12' spiketooth harrow	.22 hr.	.24	.05	1.25	.22 hr.	.28	.06	2.10
Broadcaster (rented)	.22 hr.	.25	.06	1.50	.22 hr.	.25	.06	2.10
Materials:								
Irrigation water	8 ac."	.53	4.22	105.50	8 ac."	.48	3.88	135.80
Seed	25 lb..	.34	8.50	212.50	25 lb.	.34	8.50	297.50
Labor:								
Drivers	1.64 hr.	1.00	1.64	41.00	1.64 hr.	1.00	1.64	57.40
Irrigators	3.60 hr.	.90	3.24	81.00	3.60 hr.	.90	3.24	113.40
Soc. Sec. & Comp. Insur. b/			.28	7.08			.28	9.91
Contracts:								
Disk 2X			3.00	75.00			3.00	105.00
Chisel 2X			5.50	137.50			5.50	192.50
Landplane 3X			12.00	300.00			12.00	420.00
Make borders			.75	18.75			.75	26.25
Dust (2% Parathion)	12.5 lb.		2.14	53.50	12.5 lb.		2.14	74.90
Total cost			48.41	1,210.33			46.08	1,612.91
Amount charged off annually			12.10	302.58			11.52	403.23

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

Table 11

Hours and Costs For Establishing an Alfalfa Stand
10-Acre Farm

Item	Hours							
	25				75			
	Units used per acre 1/	Unit costs 2/	Cost per acre 3/	Total costs 4/	Units used per acre 5/	Unit costs 6/	Cost per acre 7/	Total costs 8/
	Hours							
Tractor:								
Tractor 4-1 - 9	1.64 hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]	[illegible]	[illegible]
Implements:								
5:30" offset disk	1.20 hr.	[illegible]	[illegible]	[illegible]	1.20 hr.	[illegible]	[illegible]	[illegible]
11' spiketooth harrow	.64 hr.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12' spiketooth harrow	.22 hr.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Operations:								
(seeded)	.22 hr.	.25	.06	1.50	.22 hr.	.25	.06	[illegible]
Materials:								
Irrigation water	8 ac.-in.	.53	4.22	1,[illegible].30	8 ac.-in.	.48	[illegible]	[illegible]
Seed	20 lbs.	[illegible]	0.[illegible]	272.50	25 lbs.	.14	[illegible]	[illegible]
Labor:								
Irriga	1.64 hr.	[illegible]	[illegible]	41.00	1.64 hr.	1.00	[illegible]	[illegible]
Irrigators	3.60 hr.	[illegible]	3.24	81.00	3.60 hr.	.90	3.24	[illegible]
Acc. Sec. & Comp. Insur. 3/			.40	7.03			.28	0.[illegible]
Interest:								
Tier 1			[illegible]	[illegible]			[illegible]	[illegible]
Tier 2			[illegible]	1[illegible]			[illegible]	[illegible]
Tier 3			[illegible]	[illegible]			[illegible]	[illegible]
Seed (25 Percentile)	12.5 lbs.	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
Total cost				[illegible]			[illegible]	[illegible]

[illegible] variable costs.

3/ 5.0 percent x total labor cost.

TABLE 12

Inputs and Costs for Producing Field Corn
80-acre Farm

Item	1953 Acres: 5 — Yield: 30 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	1955 Acres: 15 — Yield: 35 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.28	36.40		6.50	6.93	104.00
Office		2.03	2.10	10.50		2.03	2.00	30.00
Improvements		1.82	1.88	9.41		1.82	1.79	26.88
Power			22.81	114.05			14.25	213.75
Equipment			5.26	26.30			6.44	96.60
Irrigation water			8.10	40.50			7.20	108.00
Total fixed			47.43	237.16			38.61	579.23
VARIABLE:								
Power:								
Tractor W-1 - B	9.01 hr.	1.11	9.96	49.80	9.01 hr.	.77	6.94	104.10
Pickup truck	65.8 mi.	.04	2.50	12.50	78.1 mi.	.04	2.97	44.55
Equipment (owned):								
Plow, 2 w/2-16"	1.28 hr.	1.37	1.75	8.75	1.28 hr.	1.70	2.17	32.55
5'3" offset disk	1.12 hr.	.75	.84	4.20	1.12 hr.	.85	.95	14.25
6' tandem disk	1.20 hr.	1.06	1.28	6.40	1.20 hr.	1.32	1.58	23.70
8' spiketooth harrow	1.20 hr.	.03	.03	.15	1.20 hr.	.03	.04	.60
2-row lister planter	1.06 hr.	.70	.74	3.70	1.06 hr.	.87	.92	13.80
2-row cultivator	4.05 hr.	.35	1.40	7.00	4.05 hr.	.44	1.77	26.55
Equipment (rented):								
4' ditcher	.15 hr.	.50	.08	.40	.15 hr.	.50	.08	1.20
4' scraper	.15 hr.	.50	.08	.40	.15 hr.	.50	.08	1.20
Fertilizer attach.	.90 hr.	.50	.45	2.25	.90 hr.	.50	.45	6.75
Materials:								
Irrigation water	36 ac."	.30	10.91	54.55	36 ac."	.28	10.26	153.90
Seed	10 lb.	.26	2.60	13.00	10 lb.	.26	2.60	39.00
Fertilizer $(NH_4)_2SO_4$	475 lb.	.03	15.20	76.00	475 lb.	.03	15.20	228.00
Labor:								
Drivers	10.65 hr.	1.00	10.65	53.25	10.96 hr.	1.00	10.96	164.40
Irrigators	16.20 hr.	.90	14.58	72.90	16.20 hr.	.90	14.58	218.70
General	.56 hr.	.90	.50	2.50	.56 hr.	.90	.50	7.50
Soc. Sec. & Comp. Insur. b/			1.49	7.46			1.51	22.65
Contracts:								
Shell	30 cwt.	.12	3.75	18.75	35 cwt.	.12	4.38	65.70
Pick			10.00	50.00			10.00	150.00
Haul	30 cwt.	.10	3.00	15.00	35 cwt.	.10	3.50	52.50
Interest on operating capital c/			2.23	11.16			2.21	33.20
Total variable			94.02	470.12			93.65	1,404.80
Total cost			141.45	707.28			132.26	1,984.03

(Continued on next page.)

Table 12

Inputs and Costs for Producing Field Corn

[illegible]

[illegible]	1961					1962	
	Acreage: 5 -- Yield: 20 bu.			Acreage: 10 -- Yield: 35 bu.			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1	2	3	4	5	6	7
		Dollars				Dollars	
Fixed:							
Fuel costs terms		6.50	7.25	36.40		0.50	[illegible]
Office		2.05	2.10	10.50		2.05	[illegible]
Instruments		1.92	1.98	9.41		1.02	1.75
[illegible]			22.01	114.05			14.25
Equipment			5.26	26.30			6.24
Irrigation water			8.10	40.50			7.[illegible]
Total fixed			47.45	237.16			32.01
Variable:							
Seed:							
Tractor 8-1 - B	9.01 hr.	1.11	9.96	49.80	9.01 hr.	.77	6.94
[illegible]	[illegible]	[illegible]	2.50	12.50	2.1 mi.	.04	2.17
[illegible]							
[illegible]	1.28 hr.	1.27	1.75	8.75	1.28 hr.	1.70	2.17
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.20 hr.	1.00	1.20	6.00	1.20 hr.	1.00	1.20
[illegible]							
Harrow	1.20 hr.	.03	.08	.12	1.20 hr.	.03	.04
2-row lister							
Planter	1.05 hr.	.70	.74	3.70	1.05 hr.	.87	.92
2-row cultivator	4.25 hr.	.35	1.40	7.00	4.05 hr.	.44	1.77
Equipment (rented):							
[illegible]	.15 hr.	.50	.08	.40	.15 hr.	.50	.08
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Herbicide attach.	.90 hr.	.70	.45	2.25	.90 hr.	.70	.45
Materials:							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Seed	10 lb.	.26	2.60	13.00	10 lb.	.26	2.60
Herbicide							
([illegible]) 30 ^{4}	475 lb.	.03	15.20	76.00	475 lb.	.03	15.20
[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Insecticide	16.20 hr.	.90	14.58	72.90	16.20 hr.	.90	14.58
Herbicide	.56 hr.	.90	.50	2.50	.56 hr.	.90	.50
[illegible]							
[illegible]			[illegible]				1.21
[illegible]							
Seed	30 cwt.	.12	3.75	15.75	35 cwt.	.12	4.35
Other			10.00	50.00			10.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]							
Other costs [illegible]							2.21
Total variable			[illegible]	[illegible]			52.65
Total costs			[illegible]	[illegible]			[illegible]

Table 12 continued.

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5.5 percent.

Source: Calculated from survey data.

TABLE 13

Physical Resources and Investments for Typical 160-acre Farms
1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
	1	2	3	4	5	6
			dollars			
Land:						
Total	160 acres					
Total cultivated	152 acres					
Improvements:						
Tractor shed		1		700.00		350.00
Barn & storage		1		2,000.00		1,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Subtotal				2,835.00		1,417.50
Irrigation system:						
Pumping plant	20 h.p.; 800 g.p.m.	2	2,700.00	5,400.00	1,383.75	2,767.50
Well, casing	14" diameter; 90' lift	2 x 175'	5.00	1,750.00	2.50	875.00
Pipe	14"	5,280'	.90	4,752.00	.45	2,376.00
Stands	7' x 36"	4	63.00	252.00	31.50	126.00
Vents	7' x 8"	8	4.90	39.20	2.45	19.60
Alfalfa valves	12"	100	18.56	1,856.00	9.28	928.00
Siphons	3/4" - 2"	250	1.50	375.00	.75	187.50
Subtotal				14,424.20		7,279.60
Power:						
Wheel tractor	W-1	1		2,600.00		1,820.00
Wheel tractor	W-2	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
				7,600.00		5,120.00
Equipment:						
Plow, 2 way	2-16"	1		550.00		275.00
Chisel b/	8'	1		525.00		262.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	6'	1		400.00		200.00
Spiketooth harrow	4' section	4	30.00	120.00	15.00	60.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	4 row	1		1,000.00		500.00
Fertilizer attach.	2 row	1		100.00		50.00
Cotton picker	1 row	1		8,700.00		5,220.00
Cotton trailer	6 bale	3	450.00	1,350.00	247.50	742.50
Stalk cutter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Subtotal				15,520.00		8,697.50
Total				40,379.20		22,514.60

a/ Average investment for all items except land = $\frac{\text{New cost} - \text{Salvage value}}{2}$

No salvage values, except as follows: W-1 tractor: $1,040; W-2 tractor: $1,200; Pickup truck: $ 400; 1-row cotton picker: $1,740; 6-bale cotton trailer: $ 135 ea.

b/ Standby equipment owned but not used in 1953 or 1955.

Source: Calculated from survey data.

TABLE 13

Physical resources and Investments for Typical 160-acre farms

Item	Size or capacity	Amount	New cost: per unit	New cost: total	Average Investment[1]: per unit	Average Investment[1]: total
	1	2	3	4	5	6
Total	160 acres					
Total cultivated	152 acres					
Improvements:						
Tractor shed		1		700.00		350.00
Farm & storage		1		2,000.00		1,000.00
Fuel storage - gas	550 gallons	1		175.00		87.50
Subtotal				2,875.00		1,437.50
Irrigation system:						
Pumping plant	20 h.p.; 800 g.p.m.	2	2,700.00	5,400.00	1,303.75	2,707.50
Well casing	14" diameter; 90' lift	2 x 175'	5.00	1,750.00	2.50	875.00
Pipe	14"	5,280'	.90	4,752.00	.45	2,376.00
Valve	7' x 30"	4	63.00	252.00	31.50	126.00
Tees	7' x 8"	5	4.90	35.20	2.45	17.60
Gate valve	12"	100	18.56	1,856.00	9.28	928.00
Siphons	3/4" - 2"	250	1.50	375.00	.75	187.50
Equipment:						
Wheel tractor	W-1	1		2,800.00		1,800.00
Wheel tractor	W-C	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
				7,800.00		5,120.00
Implements:						
Plow, 2 way	2-16"	1		550.00		275.00
Cultivator	8'	1		375.00		262.50
Disc, offset	7 1/2'	1		450.00		225.00
Disk, tandem	6'	1		400.00		200.00
Spiketooth harrow	4' section	4	30.00	120.00	15.00	60.00
Cultipacker	12'	1		300.00		150.00
[illegible]		1		[illegible]		[illegible]
Cultivator	4 row	1		1,000.00		500.00
Scarifier attach.	2 row	1		100.00		50.00
Cotton picker	1 row	1		6,250.00		5,220.00
Cotton trailer	6 bale	3	450.00	1,350.00	247.50	742.50
Stalk cutter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Silo delivery rake	6'	1		320.00		160.00
Subtotal				12,425.00		8,677.50
Total				40,325.00		22,435.00

[1] Average investment for all items except land = New cost - Salvage value

No salvage values, except as follows: W-1 tractor: $1,040 1-row cotton picker: $1,740
[illegible] $1,200 6-bale cotton
Pickup truck: $ 400

[1] Stationary equipment owned but not used in 1953 or 1950.
[illegible]

TABLE 14
Calendar of Operations and Physical Inputs Per Acre for Producing Cotton
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements			
		men	power	equipment		man-hours	tractor hours	material 1953	material 1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-1	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72		
	Plow	1	W-2	2 way/2-16"	10	.90	.90		
	Furrow out	1	W-1	4-row lister planter	28	.32	.32		
	Make head ditches*	1	W-2	4' ditcher (rented)		.30	.30		
	Preirrigate	1						5.2 ac.in.	5 ac.in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.30	.30		
	Disk 2X	1	W-2	6' tandem disk	18	1.00	1.00		
	Harrow	1	W-1	16' spiketooth harrow	50	.18	.18		
4/1-4/15	Plant	2	W-2	4-row lister planter	29	.62	.31	35# seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45		
4/25-5/5	Hand thin - contract								
	Cultivate (2)	1	W-2	4-row cultivator	20	.45	.45		
	Cultivate & fertilize (3)	1	W-2	4-row cultivator w/ 2-row fert. attach.	14	.64	.64	300# $(NH_4)_2SO_4$ 3 ac.in.	333# $(NH_4)_2SO_4$ 3 ac.in.
5/20-6/10	Irrigate (1)								
	Hand weed - contract								
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (2)							3 ac.in.	3 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
7/1-8/15	Dust 2X - contract							60# 5% DDT 50% S	
	Irrigate (3)							3 ac.in.	3 ac.in.
	Cultivate (6)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate 2X (4-5)							6 ac.in.	6 ac.in.
8/1-8/15	Cultivate & lay by (7)	1	W-2	4-row cultivator	26	.35	.35		
8/10-9/15	Irrigate 4X							11 ac.in.	16 ac.in.
	Defoliate - contract							10# of $NaClO_3$ w/ Borate or Mg.	
	Pick 1st - machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pickup	6-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

* Occurs 6X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 14

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton

	Furrow out	1	W-2	4-row lister planter	26	.22	.22	
	Pre bed ditches*	1	A-2	4' ditcher (rented)		.30	.30	
	Fill in ditches*	1	W-2	4' scraper (rented)		.30	.30	
	Disk 2X	1	A-2	6' tandem disk	18	1.00	1.00	
	Harrow	1	A-1	16' spiketooth harrow	50	.16	.16	
4/1-4/15	Plant	2	W-2	4-row lister planter	29	.42	.31	35# seed
	Cultivate	1	A-2	12' cultivator	44	.20	.20	
	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45	
4/25-5/5	Hand work - contract							
	Cultivate (2)	1	W-2	4-row cultivator	20	.45	.45	
	Cultivate & fertilize (3)	1	W-2	4-row cultivator w/ 2-row fert. attach.	14	.64	.64	300# (NH4)2SO4 2 ac.in. 200# (NH4)2SO4 2 ac.in.
5/20-6/10	Irrigate (1)							
	Hand work - contract							
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35	
	Irrigate (2)							
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35	2 ac.in. 2 ac.in.
7/1-7/15	Hoe 2X - contract							
	Irrigate (3)							
	Cultivate (6)	1	W-2	4-row cultivator	26	.35	.35	60# 32% NOT SOW 2 2 ac.in. 2 ac.in.
	Irrigate 2X (4-5)							
7/1-8/15	Cultivate & lay by (7)	1	W-2	4-row cultivator	26	.35	.35	6 ac.in. 6 ac.in.
8/10-8/15	Irrigate 2X							
	Defoliate - contract							11 ac.in. 5 ac.in. 10# of MACIO w/ Prorate or Mo.
	Pick 1st - machine	2	W-2	1-row cotton picker	6	3.00	3.00	
	Pick 2nd - machine	2	W-2	1-row cotton picker	7	2.50	1.25	
	Haul to gin	1	Stoque	6-bale cotton trailer	6	1.50	1.50	
	Gin - contract							

TABLE 15

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Irrigate 1X	1						4.4 ac. in.
5/1-5/20	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
6/1-6/20	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
7/1-7/20	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
8/1-8/20	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
9/1-9/20	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract	1						
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

* No cutting for first year of stand.
Source: Calculated from survey data.

TABLE 16

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa or Irrigated Pasture Stand
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72	
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	W-2	7 1/2' offset disk	25	.36	.36	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-2	7 1/2' offset disk w/8' spiketooth	22	.41	.41	
2/1-3/15	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	25# seed (alfalfa) 10# seed (permanent pasture)
	Harrow	1	W-2	16' spiketooth harrow	50	.18	.18	
	Dust (alfalfa) - contract							12.5# 2% Parathion

Source: Calculated from survey data.

TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72	
	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Furrow out	1	W-1	4-row lister planter	28	.32	.32	
	Make head ditches*	1	W-2	4' ditcher (rented)		.15	.15	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.15	.15	
	Disk 2X	1	W-2	6' tandem disk	20	.90	.90	
	Harrow	1	W-1	16' spiketooth harrow	50	.18	.18	
3/25-4/10	Plant	2	W-2	4-row lister planter	28	.64	.32	10# seed
4/10-4/25	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
4/25-5/10	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
5/10-5/25	Cultivate & fertilize	1	W-2	4-row cultivator w/ 2-row fert. attach.	14	.64	.64	475# $(NH_4)_2SO_4$
5/25-6/10	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/1-6/15	Irrigate (1)	1						5 ac. in.
6/10-6/25	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/15-9/1	Irrigate 5X (2-6)	1						25 ac. in.
9/20-10/20	Pick & Haul - contract							
	Shell - contract							

* Occurs 3X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 11

Calendar of Operations and Physical Inputs Per Acre for Irrigated Field Corn

					Acres		Physical Inputs	
	Work 5X	I	M-5	1 I\5, cultof disk	52	.15	.15	
	Row	I	M-5	5 mga\5-16,	70	.30	.30	
	Plow out	I	M-1	4-row fixed bottom	58	.35	.35	
	Cross plow diagonal*	I	M-5	1, diagonal (equipm)		.12	.12	
	Fertilizing	I						
	Drill in diagonal*	I	M-5	1, corn/bar (insure)		.12	.12	
	Work 5X	I	M-5	6, random disk	50	.20	.20	
	Pattern	I	M-1	16, straight pattern	50	.18	.18	
	Cultivate	I	M-5	4-row cultivator	50	.42	.42	
	Cultivate	I	M-5	4-row cultivator	55	.41	.41	
	Cultivate & fertilize	I	M-5	4-row cultivator w\ 5-row fert. attach.	14	.24	.24	20 lb (N)
	Cultivate	I	M-5	4-row cultivator	54	.33	.33	
	Irrigate (I)	I						8 ac. in.
	Cultivate	I	M-5	5-row cultivator	54	.38	.38	
	Till\Plant 5X (3-2)	I						10 ac. in.
	Pick & plant - contract							
	Spell - contract							

* Double 5X - mgm-phosphate and interior-phosphate can start for crop.

TABLE 18

Calendar of Operations and Physical Inputs Per Acre for Maintaining Irrigated Pasture
160-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/31	Fertilize	1	W-1	Fertilizer spreader (rented)	30	.30	.30	200# 16-20
3/1-10/31	Irrigate 15X (about every 2 weeks)	1						60 ac. in.
4/1-4/30	Disk with harrow attached 2X	1	W-2	6' tandem disk w/8' spiketooth	18	1.00	1.00	
5/1-5/31	Mow	1	W-1	7' power mower	29	.31	.31	
8/1-8/31	Mow	1	W-1	7' power mower	29	.31	.31	

Source: Calculated from survey data.

TABLE 16

Calendar of Operations and Physical Inputs for Acre for Maintaining Irrigated Pasture

Month	Operations	Crew and equipment: Man	Crew and equipment: Power	Crew and equipment: Equipment	Acres per 9-hour day	Special requirements: Man-hours	Special requirements: Tractor hours	Special requirements: Equipment
(illegible)	Fertilize	1	1-1	Fertilizer spreader (rented)	[illegible]	—	—	[illegible]
7/1-10/31	Irrigate 15X (about every 2 weeks)	1						60 ac. in.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
b/1-5/31	Mow	1	1-1	Quickmouth 7' power mower	34	.31	.31	
c/1-5/31	Mow	1	1-1	7' power mower	29	.41	.31	

Source: Calculated from survey data.

TABLE 19

Inputs and Costs for Producing Cotton
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 75 — Yield: 1.25 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		6.50	7.21	540.80
Office		1.48	1.56	117.00
Improvements		1.50	1.58	118.76
Power			11.40	855.00
Equipment			36.13	2,709.75
Irrigation water			7.86	589.50
Total fixed			65.74	4,930.81
VARIABLE:				
Power:				
W-1 tractor	1.00 hr.	.61	.61	45.75
W-2 tractor	9.45 hr.	.74	6.95	521.25
Pickup truck	90.906 mi.	.04	3.18	238.50
Equipment (owned):				
Plow, 2 w/2-16"	.90 hr.	1.22	1.10	82.50
7 1/2' offset disk	.72 hr.	1.22	.88	66.00
6' tandem disk	1.00 hr.	.80	.80	60.00
16' spiketooth harrow	.18 hr.	.12	.02	1.50
12' cultipacker	.20 hr.	2.53	.51	38.25
4-row lister planter	.63 hr.	1.16	.73	54.75
4-row cultivator	2.94 hr.	.91	2.67	200.25
2-row fertilizer attachment	.64 hr.	.42	.27	20.25
1-row cotton picker	2.78 hr.	6.98	19.40	1,455.00
6-bale cotton trailer	1.50 hr.	.36	.54	40.50
2-row stalk cutter	.50 hr.	.43	.22	16.50
Equipment (rented):				
4' ditcher	.30 hr.	.50	.15	11.25
4' scraper	.30 hr.	.50	.15	11.25
Materials:				
Irrigation water	31.2 ac."	.22	7.02	526.50
Seed	35 lb.	.08	2.80	210.00
Fertilizer $(NH_4)_2SO_4$	300 lb.	.03	9.60	720.00
Labor:				
Drivers	14.12 hr.	1.00	14.12	1,059.00
Irrigators	13.16 hr.	.90	11.84	888.00
General	3.09 hr.	.90	2.78	208.50
Soc. Sec. & Comp. Insur. b/			1.67	125.02

(Continued on next page.)

Inputs and Costs for Producing Cotton

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			
Real estate taxes		6.40	7.21	740.30
Office		1.49	1.66	117.70
[illegible]		1.30	[illegible]	[illegible]
[illegible]			11.40	885.00
[illegible]			36.13	2,700.74
Irrigation water			7.85	[illegible]
Total fixed			65.74	4,[illegible]
[illegible]				
Energy:				
[illegible]		1.00 hr.	.01	.61	46.75
[illegible]		0.45 hr.	.74	6.05	[illegible]
[illegible]		[illegible]	.04	3.13	[illegible]
Equipment (owned):					
[illegible]		.90 hr.	1.22	1.10	[illegible]
[illegible]		.72 hr.	1.22	.88	66.00
6' tandem disk		1.00 hr.	.50	.80	60.00
16' sulky-type harrow		.10 hr.	.12	.02	1.50
[illegible]		.20 hr.	2.83	.22	[illegible]
4-row lister planter		.62 hr.	1.15	.73	54.75
[illegible]		2.04 hr.	.01	2.07	[illegible]
3-row fertilizer attachment		.64 hr.	.42	.27	[illegible]
1-row cotton picker		2.78 hr.	6.00	19.40	1,455.00
5-bale cotton trailer		1.30 hr.	.36	.54	40.50
2-row stalk cutter		.50 hr.	.43	.22	16.50
[illegible]					
4' disker		.40 hr.	.50	.16	12.20
4' [illegible]		.30 hr.	.50	.15	11.25
[illegible]					
Irrigation water		31.2 ac.'	.21	7.02	526.50
Seed		35 lb.	.08	2.80	210.00
[illegible]		400 lb.	.03	9.00	720.00
Labor:					
Hoeing		14.12 hr.	1.00	14.12	1,059.00
Chopping		13.16 hr.	.90	11.84	888.00
Ginning		4.00 hr.	.00	2.70	208.50
Total Direct Costs Incurred					[illegible]

(Continued on next page.)

Table 19 continued.

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 75 — Yield: 1.25 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
Contracts:				
Hand thin			5.00	375.00
Hand weed			5.00	375.00
Dust 2X (5% DDT - 50% S)	60 lb.	.14	8.10	607.50
Defoliate ($NaClO_3$ w/Borate or Mg.)	10 lb.		4.25	318.75
Gin	1.25 bale	14.70	18.38	1,378.50
Insur. & storage	1.25 bale	1.19	1.49	111.75
Interest on operating capital c/			2.69	201.56
Total variable			132.92	9,968.58
Total cost			198.66	14,899.39

(Continued on next page.)

Table 10 continued.

Item	Active used per acre a/	Unit price	Unit per acre	Total costs
Fertilizer:				
Sand turn			5.00	375.00
Hard wood			5.00	375.00
Duar ZX (7% DDT - 5% S)	60 lb.	.14	8.40	607.50
Defoliate ($NaClO_3$ w/Hormone or Leg.)	10 lb.		4.35	348.75
Lime	1.25 bale	14.70	18.38	1,102.50
Insec. & storage	1.75 bale	1.10	1.93	144.75
Labor at cm operating				
capital c/			2.00	700.00
Total variable			120.26	[illegible]
Total cost			[illegible]	[illegible]

(Continued on next page.)

Table 19 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 41 — Yield: 1.5 bales				Acres: 41 — Yield: 1.5 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.36	301.60		6.50	7.36	301.60
Office		1.48	1.59	65.25		1.48	1.59	65.25
Improvements		1.50	1.62	66.23		1.50	1.62	66.23
Power			15.97	654.77			13.54	555.14
Equipment			64.58	2,647.78			61.13	2,506.33
Irrigation water			7.52	308.32			8.86	363.26
Total fixed			98.64	4,043.95			94.10	3,857.81
VARIABLE:								
Power:								
W-1 tractor	1.00 hr.	.63	.63	25.83	1.00 hr.	.65	.65	26.65
W-2 tractor	9.45 hr.	.80	7.57	310.37	9.45 hr.	.76	7.16	293.56
Pickup truck	109.88 mi.	.04	3.85	157.85	109.88 mi.	.04	3.84	157.44
Equipment (owned):								
Plow, 2 w/2-16"	.90 hr.	2.24	2.01	82.41	.90 hr.	1.13	1.02	41.82
7 1/2' offset disk	.72 hr.	1.64	1.18	48.38	.72 hr.	1.21	.87	35.67
6' tandem disk	1.00 hr.	.74	.74	30.34	1.00 hr.	.78	.78	31.98
16' spiketooth harrow	.18 hr.	.07	.01	.41	.18 hr.	.12	.02	.82
12' cultipacker	.20 hr.	4.63	.93	38.13	.20 hr.	4.63	.93	38.13
4-row lister planter	.63 hr.	2.13	1.34	54.94	.63 hr.	1.07	.67	27.47
4-row cultivator	2.94 hr.	1.66	4.88	200.08	2.94 hr.	.95	2.79	114.39
2-row fertilizer attachment	.64 hr.	.76	.49	20.09	.64 hr.	.39	.25	10.25
1-row cotton picker	2.78 hr.	12.68	35.24	1,444.84	2.78 hr.	12.76	35.49	1,455.09
6-bale cotton trailer	1.50 hr.	.66	.99	40.59	1.50 hr.	.66	.99	40.59
2-row stalk cutter	.50 hr.	.79	.40	16.40	.50 hr.	.79	.40	16.40
Equipment (rented):								
4' ditcher	.30 hr.	.50	.15	6.15	.30 hr.	.50	.15	6.15
4' scraper	.30 hr.	.50	.15	6.15	.30 hr.	.50	.15	6.15
Materials:								
Irrigation water	36 ac."	.20	7.38	302.58	36 ac."	.22	8.03	329.23
Seed	35 lb.	.08	2.80	114.80	35 lb.	.08	2.80	114.80
Fertilizer $(NH_4)_2SO_4$	333 lb.	.03	10.66	437.06	333 lb.	.03	10.66	437.06
Labor:								
Drivers	14.57 hr.	1.00	14.57	597.37	14.57 hr.	1.00	14.57	597.37
Irrigators	15.19 hr.	.90	13.67	560.47	15.19 hr.	.90	13.67	560.47
General	3.09 hr.	.90	2.78	113.98	3.09 hr.	.90	2.78	113.98
Soc. Sec. & Comp. Insur. b/			1.80	73.77			1.80	73.77

(Continued on next page.)

[illegible]

Table19 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 41 — Yield: 1.5 bales				Acres: 41 — Yield: 1.5 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Contracts:								
Hand thin			5.00	205.00			5.00	205.00
Hand weed			5.00	205.00			5.00	205.00
Dust 2X (5% DDT 50% S)	60 lb.	.14	8.10	332.10	60 lb.	.14	8.10	332.10
Defoliate ($NaClO_3$ w/Borate or Mg.)	10 lb.		4.25	174.25	10 lb.		4.25	174.25
Gin	1.5 bale	14.70	22.05	904.05	1.5 bale	14.70	22.05	904.05
Insur. & storage	1.5 bale	1.19	1.78	72.98	1.5 bale	1.19	1.78	72.98
Interest on operating capital c/			3.40	139.56			3.30	135.33
Total variable			163.80	6,715.93			159.95	6,557.95
Total cost			262.44	10,759.88			254.05	10,415.76

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5 percent.

Source: Calculated from survey data.

TABLE 20

Inputs and Costs for Producing Alfalfa
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 70 — Yield: 5.25 tons			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		6.50	7.13	499.20
Office		1.48	1.54	108.00
Improvements		1.50	1.57	109.62
Power			6.28	439.60
Equipment			1.87	130.90
Irrigation water			11.19	783.30
1/4 cost to establish stand			10.82	757.52
Total fixed			40.40	2,828.14
VARIABLE:				
Power:				
W-1 tractor	3.00 hr.	.61	1.83	128.10
Pickup truck	45.46 mi.	.04	1.59	111.30
Equipment:				
7' power mower	1.55 hr.	.32	.50	35.00
8' side delivery rake	1.45 hr.	.51	.74	51.80
Materials:				
Irrigation water	44.4 ac."	.22	9.99	699.30
Labor:				
Drivers	4.14 hr.	1.00	4.14	289.80
Irrigators	18.73 hr.	.90	16.86	1,180.20
Soc. Sec. & Comp. Insur. b/			1.22	85.26
Contracts:				
Bale	5.25 ton	3.50	18.38	1,286.60
Roadside c/	5.25 ton	1.75	9.19	643.30
Total variable			64.44	4,510.66
Total cost			104.84	7,338.80

(Continued on next page.)

Table 20 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 60 — Yield: 5.5 tons				Acres: 60 — Yield: 5.5 tons			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.45	447.20		6.50	7.45	447.20
Office		1.48	1.61	96.75		1.48	1.61	96.75
Improvements		1.50	1.64	98.20		1.50	1.64	98.20
Power			7.15	429.00			7.48	448.80
Equipment			2.06	123.60			2.27	136.20
Irrigation water			9.28	556.80			10.92	655.20
1/4 cost to establish stand			11.18	670.45			10.86	651.25
Total fixed			40.37	2,422.00			42.23	2,533.60
VARIABLE:								
Power:								
W-1 tractor	3.00 hr.	.63	1.90	114.00	3.00 hr.	.65	1.95	117.00
Pickup truck	54.95 mi.	.04	1.92	115.20	54.95 mi.	.04	1.92	115.20
Equipment:								
7' power mower	1.55 hr.	.30	.46	27.60	1.55 hr.	.38	.58	34.80
8' side delivery rake	1.45 hr.	.60	.87	52.20	1.45 hr.	.60	.87	52.20
Materials:								
Irrigation water	44.4 ac."	.20	9.10	546.00	44.4 ac."	.22	9.90	594.00
Labor:								
Drivers	4.37 hr.	1.00	4.37	262.20	4.37 hr.	1.00	4.37	262.20
Irrigators	18.73 hr.	.90	16.86	1,011.60	18.73 hr.	.90	16.86	1,011.60
Soc. Sec. & Comp. Insur. b/			1.23	73.88			1.23	73.88
Contracts:								
Bale	5.5 ton	3.50	19.25	1,155.00	5.5 ton	3.50	19.25	1,155.00
Roadside c/	5.5 ton	1.75	9.62	577.20	5.5 ton	1.75	9.62	577.20
Total variable			65.58	3,934.88			66.55	3,993.08
Total cost			105.95	6,356.88			108.78	6,526.68

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.

TABLE 21

Inputs and Costs for Establishing an Alfalfa Stand
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
		Acres: 70		
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
Power:				
W-2 tractor	1.89 hr.	1.38	2.60	182.00
Equipment:				
7 1/2' offset disk	1.49 hr.	2.34	3.49	244.30
8' spiketooth harrow	.41 hr.	.38	.15	10.50
16' spiketooth harrow	.18 hr.	.75	.14	9.80
Broadcaster (rented)	.22 hr.	.25	.06	4.20
Materials:				
Irrigation water	8 ac."	.48	3.82	267.40
Seed	25 lb.	.34	8.50	595.00
Labor:				
Drivers	1.89 hr.	1.00	1.89	132.30
Irrigators	2.25 hr.	.90	2.02	141.40
Soc. Sec. & Comp. Insur. b/			.23	15.87
Contracts:				
Landplane 3X			12.00	840.00
Chisel 2X			5.50	385.00
Make borders			.75	52.50
Dust (2% Parathion)	12.5 lb.	.17	2.14	149.80
Total cost			43.29	3,030.07
Amount charged off annually			10.82	757.52

(Continued on next page.)

TABLE 21

Inputs and Costs for Rotational Grazing on Alfalfa Stand
(Summary Table)

	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
of spiketooth harrow	.42 hrs.	[illegible]	[illegible]	[illegible]
10' spiketooth harrow	.18 hrs.	[illegible]	[illegible]	[illegible]
[illegible]				
Broadcaster (rented)	.22 hrs.	[illegible]	[illegible]	[illegible]
[illegible]				
Irrigation water	8 acre"	.48	1.32	[illegible]
Seed	25 lbs.	[illegible]	[illegible]	[illegible]
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Insecticide	2.25 hrs.	[illegible]	[illegible]	[illegible]
Gen. Gen. & Overh. Items. b/			[illegible]	[illegible]
[illegible]				
Insecticide [illegible]			[illegible]	[illegible]
Other [illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
Land (2% Parcelled)	[illegible] hrs.	[illegible]	[illegible]	[illegible]
Total cost			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]

([illegible])

Table 21 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 60				Acres: 60			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Power:								
W-2 tractor	1.89 hr.	1.82	3.44	206.40	1.89 hr.	1.51	2.85	171.00
Equipment:								
7 1/2' offset disk	1.49 hr.	3.15	4.69	281.40	1.49 hr.	2.32	3.46	207.60
8' spiketooth harrow	.41 hr.	.22	.09	5.40	.41 hr.	.37	.15	9.00
16' spiketooth harrow	.18 hr.	.43	.08	4.80	.18 hr.	.75	.13	7.80
Broadcaster (rented)	.22 hr.	.25	.06	3.60	.22 hr.	.25	.06	3.60
Materials:								
Irrigation water	8 ac."	.41	3.31	198.60	8 ac."	.47	3.74	224.40
Seed	25 lb.	.34	8.50	510.00	25 lb.	.34	8.50	510.00
Labor:								
Drivers	1.89 hr.	1.00	1.89	113.40	1.89 hr.	1.00	1.89	113.40
Irrigators	2.25 hr.	.90	2.02	121.20	2.25 hr.	.90	2.02	121.20
Soc. Sec. & Comp. Insur. b/			.23	13.61			.23	13.61
Contracts:								
Landplane 3X			12.00	720.00			12.00	720.00
Chisel 2X			5.50	330.00			5.50	330.00
Make borders			.75	45.00			.75	45.00
Dust (2% Parathion)	12.5 lb.	.17	2.14	128.40	12.5 lb.	.17	2.14	128.40
Total cost			44.70	2,681.81			43.42	2,605.01
Amount charged off annually			11.18	670.45			10.86	651.25

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

TABLE 22

Inputs and Costs for Producing Field Corn
160-2 Farm

Item	1955 Acres: 40 — Yield: 35 cwt. Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		6.50	7.28	291.20
Office		1.48	1.58	63.00
Improvements		1.50	1.60	63.95
Power			7.27	290.80
Equipment			5.06	202.40
Irrigation water			8.86	354.40
Total fixed			31.65	1,265.75
VARIABLE:				
Power:				
W-1 tractor	.50 hr.	.65	.32	12.80
W-2 tractor	5.40 hr.	.76	4.09	163.60
Pickup truck	54.95 mi.	.04	1.92	76.80
Equipment (owned):				
Plow, 2 w/2-16"	.90 hr.	1.13	1.02	40.80
7 1/2' offset disk	.72 hr.	1.21	.87	34.80
6' tandem disk	.90 hr.	.78	.70	28.00
16' spiketooth harrow	.18 hr.	.12	.02	.80
4-row lister planter	.64 hr.	1.07	.68	27.20
4-row cultivator	2.26 hr.	.95	2.14	85.60
2-row fertilizer attachment	.64 hr.	.39	.25	10.00
Equipment (rented):				
4' ditcher	.15 hr.	.50	.08	3.20
4' scraper	.15 hr.	.50	.08	3.20
Materials:				
Irrigation water	36 ac."	.22	8.03	321.20
Seed	10 lb.	.26	2.60	104.00
Fertilizer $(NH_4)_2SO_4$	475 lb.	.03	15.20	608.00
Labor:				
Drivers	7.27 hr.	1.00	7.27	290.80
Irrigators	15.19 hr.	.90	13.67	546.80
General	.32 hr.	.90	.29	11.60
Soc. Sec. & Comp. Insur. b/			1.23	49.25
Contracts:				
Pick			10.00	400.00
Shell	35 cwt.	.12	4.38	175.20
Haul	35 cwt.	.10	3.50	140.00
Interest on operating capital c/			1.95	78.18
Total variable			80.29	3,211.83
Total cost			111.94	4,477.58

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ Total of variable costs (less operator labor) ÷ 2, x 5.5 percent.
Source: Calculated from survey data.

TABLE 23

Inputs and Costs for Maintaining Irrigated Pasture
160-1 Farm

Item	1955 Acres: 40 — Yield: 5,000 lbs. TDN a/			
	Units used per acre b/	Unit cost b/	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		6.50	7.28	291.20
Office		1.48	1.58	63.00
Improvements		1.50	1.60	63.95
Power			4.85	194.00
Equipment			1.35	54.00
Irrigation water			12.54	501.60
1/8 cost to establish irrigated pasture			4.88	195.34
Total fixed			34.08	1,363.09
VARIABLE:				
Power:				
W-1 tractor	.92 hr.	.63	.58	23.20
W-2 tractor	1.00 hr.	.80	.80	32.00
Pickup truck	54.95 mi.	.04	1.92	76.80
Equipment:				
6' tandem disk	1.00 hr.	.74	.74	29.60
8' spiketooth harrow	1.00 hr.	.03	.03	1.20
7' power mower	.62 hr.	.30	.18	7.20
Fertilizer spreader (rented)	.30 hr.	1.00	.30	12.00
Materials:				
Irrigation water	60 ac."	.20	12.30	492.00
Fertilizer (16-20)	200 lb.	.04	9.00	360.00
Labor:				
Drivers	3.29 hr.	1.00	3.29	131.60
Irrigators	25.31 hr.	.90	22.78	911.20
Soc. Sec. & Comp. Insur. c/			1.51	60.48
Total variable			53.43	2,137.28
Total cost			87.51	3,500.37

a/ Total digestible nutrient.

b/ Rounded.

c/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

TABLE 22

Comparative Costs for Installing Irrigated Pasture
100-A Farm

Item	Quantity	Unit	Unit Cost	Total Cost
Land				
Real estate taxes			7.00	294.00
Office				
Improvements	1.00		1.00	58.05
Power			4.85	194.00
Equipment			1.00	94.00
Irrigation water			12.04	501.00
1/4 cost to catchment				
Irrigated pasture			4.58	185.14
Total Fixed			24.38	[illegible]
Power				
7-1 tractor	.83	hr.	.05	23.20
7-2 tractor	1.00	hr.	.10	32.00
Clamp truck	54.85	mi.	[illegible]	75.00
Labor				
21 tractor disk	1.00	hr.	[illegible]	[illegible]
31 sprinkle pipe burrow	1.00	hr.	.03	1.20
71 power mower	.02	hr.	.30	7.20
Fertilizer spreader (rental)	.30	hr.	1.00	.30	12.00
Material				
Irrigation water	60 a.-in.		.20	14.10	422.00
Fertilizer (10-20)	200 lb.		.05	9.00	180.00
Labor				
Lifts	4.00	hr.	1.00	[illegible]	143.20
Tractors	25.11	hr.	.00	22.15	[illegible]
Ins., soc. & comp. Insur. 6/				[illegible]	[illegible]
Total variable				[illegible]	[illegible]
Total cost				[illegible]	[illegible]

1/ [illegible]

2/ [illegible]

3/ 5.0 percent x total labor costs

Source: Calculated from survey data.

TABLE 24

Inputs and Costs for Establishing Irrigated Pasture
160-1 Farm

Item	1955 Acres: 40 Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
Power:				
W-2 tractor	1.89 hr.	1.82	3.44	137.60
Equipment:				
7 1/2' offset disk	1.49 hr.	3.15	4.69	187.60
8' spiketooth harrow	.41 hr.	.22	.09	3.60
16' spiketooth harrow	.18 hr.	.43	.08	3.20
Broadcaster (rented)	.22 hr.	.25	.06	2.40
Materials:				
Irrigation water	8 ac."	.41	3.31	132.40
Seed	10 lb.	.50	5.00	200.00
Labor:				
Drivers	1.89 hr.	1.00	1.89	75.60
Irrigators	2.25 hr.	.90	2.03	81.20
Soc. Sec. & Comp. Insur. b/			.23	9.09
Contracts:				
Landplane 3X			12.00	480.00
Chisel 2X			5.50	220.00
Make borders			.75	30.00
Total cost			39.07	1,562.69
Amount charged off annually			4.88	195.34

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

Figures and Costs for Establishing Irrigated Pasture
(Per Farm)

Item	Units used per acre 2/	Unit cost	Total cost
	1	2	3
Power:			
D-2 tractor	[illegible]	[illegible]	[illegible]
Equipment:			
7 1/2' offset disk	2.40 hr.	3.15	[illegible]
8' spiketooth harrow	.41 hr.	.62	[illegible]
10' spiketooth harrow	.78 hr.	.09	3.20
Broadcaster (rented)	.22 hr.	.25	2.40
Materials:			
Irrigation water	8 acr.	.41	132.10
Seed	10 lb.	.50	5.00
Labor:			
Drivers	1.80 hr.	1.00	75.10
Irrigators	2.85 hr.	.80	21.20
Soc. Sec. & Comp. Insur. b/		.12	5.00
Landrent 3%		15.00	450.00
Overhead 2%		7.50	225.00
[illegible]			[illegible]
[illegible]			[illegible]
Total [illegible]			[illegible]

a/ Rounded. Unit costs for power, equipment, and water equal one of unit fixed and unit variable costs.

b/ 5.8 percent x total labor costs.

Source: [illegible] Data.

TABLE 25

Physical Resources and Investments for Typical 320-acre Farm
1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment[a] per unit	Average investment[a] total
	1	2	3	4	5	6
			dollars			
Land:						
Total	320 acres					
Total cultivated	290 acres					
Improvements:						
Tenant house		1		4,000.00		2,000.00
Tractor shed		1		1,250.00		625.00
Storage shed		2	2,000.00	4,000.00	1,000.00	2,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Fuel storage - diesel	550 gallons	1		135.00		67.50
Subtotal				9,520.00		4,760.00
Irrigation system:						
Pumping plant	20 h.p.; 800 g.p.m.	4	2,700.00	10,800.00	1,383.75	5,535.00
Well, casing	14" diameter; 90' lift	4 x 175'	5.00	3,500.00	2.50	1,750.00
Pipe	16"	7,200'	1.00	7,200.00	.50	3,600.00
Pipe	12"	5,000'	.80	4,000.00	.40	2,000.00
Stands	8' x 36"	4	72.00	288.00	36.00	144.00
Vents	8' x 8"	12	5.60	67.20	2.80	33.60
Alfalfa valves	12"	200	18.56	3,712.00	9.28	1,856.00
Siphons	1" - 3"	400	1.50	600.00	.75	300.00
Subtotal				30,167.20		15,218.60
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-1	1		2,600.00		1,820.00
Wheel tractor	W-2	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup	1/2 ton	1		2,000.00		1,200.00
Truck	1 1/2 ton	1		2,800.00		1,470.00
Subtotal				20,400.00		12,540.00
Equipment:						
Ditcher	5'	1		140.00		70.00
Scraper	5'	1		150.00		75.00
Plow, 2 way	2 - 16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	7'	1		500.00		250.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	4-row	1		550.00		275.00
Cultivator	4-row	2	1,000.00	2,000.00	500.00	1,000.00
Fertilizer attach.	4-row	1		150.00		75.00

(Continued on next page.)

Physical Resources and Investments for [illegible] Farm
1955 Prices

Item	Size or capacity	Number	Depreciation			
			1	2	3	4
			Dollars			
Land:						
Total:	300 acres					
Total cost invested	300 acres					
Improvements:						
Barn:		1				
Tractor shed		1				
Storage shed		1				
Total storage - grain	750 bushels	1				
Total storage - [illegible]						
Total	500 bushels	1				
Subtotal						
Irrigation system:						
Pumping plant	20 h.p.; 800 g.p.m.	4				
Well casing	16" diameter;					
	300' lift	4 x 175'				
Pipe	16"					
Pipe	[illegible]					
Sprinkler	40 x 40'					
Vents	40 x 40"	12				
Alfalfa valves	12"	200				
Siphons	12 - 3"	100				
Subtotal						
Tractors:						
Crawler	D-8	1				
Wheel tractor	[illegible]	1				
Wheel tractor	[illegible]	2				
Trailer	1 1/2 ton	1				
Truck	1 1/2 ton	1				
Subtotal						
Implements:						
Plow	[illegible]	1				
Scraper	[illegible]	1				
Plow, 2 way	2 - 16"	1				
Harrow	[illegible]	1				
Disk, offset	7 1/2'	1				
Disk, tandem	7'	1				
Spring-tooth harrow	40' section	3				
Cultivator	[illegible]	1				
Row planter	4-row	1				
Combine	4-row	2				
Forage harvester, [illegible]	4-row	1				

(Continued on next page.)

Table 25 continued.

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment[a] per unit	Average investment[a] total
	1	2	3	4	5	6
			dollars			
Equipment (con't.):						
Cotton picker	1-row	1		8,700.00		5,220.00
Cotton trailer	5 bale	4	400.00	1,600.00	220.00	880.00
Stalk cutter	2-row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Hay baler	2 wire	1		3,325.00		1,662.50
Subtotal				20,450.00		11,175.00
Total				80,537.20		43,693.60

a/ $\frac{\text{New cost + Salvage value}}{2}$

No salvage value except as follows:

T-5D tractor:	$ 700.00
W-1 tractor:	$1,040.00
W-2 tractor:	$1,200.00 ea.
Pickup:	$ 400.00
Truck:	$ 140.00
Cotton picker	$1,740.00
5-bale trailers:	$ 40.00 ea.
Hay baler:	$ 665.00
Pumping plant:	$ 280.00 ea.

Source: Calculated from survey data.

Table 22 (continued)

Item	Size or capacity	Number	Cost	Salvage value	Depreciation
Equipment (cont'd.):					
Cotton [illegible]	5-gram	3	[illegible]	[illegible]	[illegible]
Cotton trailer	3 bale	4	400.00	1,600.00	240.00	880.00
Stalk cutter	2-row	1		325.00		325.00
Power mower	72"	1		950.00		175.00
Side delivery rake	6'	1		520.00		240.00
Hay baler	2 wire	1		3,350.00		[illegible]
Total				[illegible]		[illegible]

New cost & salvage value

We arrive value except as follows:

Tractor:	3	700.00
[illegible]		[illegible]
[illegible]		[illegible]
[illegible]		[illegible]
Truck:	5	140.00
Cotton picker	7	7,240.00
[illegible]		
Trailers:	2	40.00 ea.
Hay baler:	3	600.00
Ginning plant:	2	240.00 ea.

Source: Calculated from survey data.

TABLE 26
Calendar of Operations and Physical Inputs Per Acre for Producing Cotton
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements			
		men	power	equipment		man-hours	tractor hours	material 1953	material 1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-1	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	7 1/2' offset disk	20	.90	.90		
	Plow	1	T-5D	2 way/2-16"	12	.75	.75		
	Furrow out	1	W-1	4-row lister planter	28	.32	.32		
	Make head ditches*	1	T-5D	5' ditcher		.25	.25		
	Preirrigate	1						3.2 ac.in.	4 ac.in.
	Fill in ditches*	1	T-5D	5' scraper		.25	.25		
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22		
4/1-4/15	Plant	2	W-2	4-row lister planter	29	.62	.31	35# seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
4/25-5/10	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45		
	Hand thin - contract								
	Cultivate (2)	1	W-2	4-row cultivator	22	.41	.41		
	Cultivate & fertilize (3)	1	W-2	4-row cultivator w/ 4-row fert. attach.	20	.45	.45	400# $(NH_4)_2SO_4$	420# $(NH_4)_2SO_4$
5/20-6/10	Irrigate (1)	1						3.5 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (2)	1						3.5 ac.in.	4 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (3)	1						3.5 ac.in.	4 ac.in.
7/1-7/15	Dust 2X - contract							60# 5% DDT 50% S	
	Irrigate (4)	1						3.5 ac.in.	4 ac.in.
7/15-8/1	Cultivate & lay by (6)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate 4X (5-8)	1						14 ac.in.	16 ac.in.
	Defoliate - contract							10# $NaClO_3$	w/Borate or Mg.
	Pick 1st - machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pickup	5-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

* Occurs 5X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 27

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Irrigate 1X	1						4.4 ac.in.
5/1-5/20	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
6/1-6/20	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
7/1-7/20	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
8/1-8/20	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
9/1-9/20	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

* No cutting for first year of stand.
Source: Calculated from survey data.

[illegible]

TABLE 28

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa or Irrigated Pasture Stand
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-5D	7 1/2' offset disk	26	.70	.70	
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	7 1/2' offset disk	26	.35	.35	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	7 1/2' offset disk w/ 8' spiketooth	26	.35	.35	
2/1-3/15	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	25# seed (alfalfa) 10# seed (permanent pasture)
	Harrow	1	W-2	12' spiketooth	40	.22	.22	
	Dust (alfalfa) - contract							12.5# 2% Parathion

Source: Calculated from survey data.

TABLE [illegible]

Calendar of operations and input of inputs per Acre for Establishing an Alfalfa or Irrigated Pasture Stand

Date	Operation	Equipment	Implement	Depth	Acres per Hour	Fuel Gal. per Acre	Lube Gal. per Acre
	Fertilizer						
	Dolomite 2X -	I	T-6D	6' [illegible]	2	.70	.70
	Sandpiture 2X - contract				10	1.12	1.12
	Gas Fumigant - contract						
	Nematicide - contract						
	DDS	I	T-5D	7 1/2' offset disk	20	.55	.25
	Fertilizate	I					
	Disk with harrow	I	T-6D	7 1/2' offset disk w/ 8' subbreath	20	.55	.25
5/1-5/15	Seed	I	T-1	Broadcast or (rented)	10	.22	.22
	Harrow	I	T-2	12' subbreath	40	.22	.22
	Mist (alfalfa) - contract						

Source: Calculated from survey data.

	Fuel Gal. per Acre	Lube Gal. per Acre
		6 gal. in.
	250 seed (alfalfa) 10% seed (other pasture)	
	12.5 in 2% Fungicide	

TABLE 29

Calendar of Operations and Physical Inputs Per Acre for Maintaining Irrigated Pasture
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/31	Fertilize	1	W-1	Fertilizer spreader (rented)	30	.30	.30	200# 16-20
3/1-10/31	Irrigate 15X (about every 2 weeks)	1						60 ac. in.
4/1-4/30	Disk with harrow attached 2X	1	W-2	7' tandem disk w/8' spiketooth	22	.82	.82	
5/1-5/31	Mow	1	W-2	7' power mower	29	.31	.31	
8/1-8/31	Mow	1	W-2	7' power mower	29	.31	.31	

Source: Calculated from survey data.

TABLE 20

Calendar of operations and physical inputs for acre for maintaining irrigation feature
[illegible]

Date	Operations	Man	Tractor	Equipment	Acre per day	Physical requirements: Hours	Tractor hours	Material
12/1-12/20	Dormant	C	W-1	Fertilizer (vented)	0	[illegible]	[illegible]	[illegible]
1/1-10/31	Irrigate lox (about every 2 weeks)	I						60 ac. ins.
2/1-2/20	Disk with harrow attached 3X	I	W-2	7' tandem disk w/8' spikeboth	[illegible]	[illegible]	[illegible]	
2/21-2/28	Mow	I	W-2	7' power mower	[illegible]	[illegible]	[illegible]	
3/1-3/31	Mow	I	W-2	7' power mower	[illegible]	[illegible]	[illegible]	

Source: Calculated from [illegible]

TABLE 30

Calendar of Operations and Physical Inputs Per Acre for Producing Barley
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/10	Disk	1	T-5D	7 1/2' offset disk	26	.35	.35	
12/5-12/15	Disk with harrow attached	1	T-5D	7' tandem disk w/8' spiketooth	22	.41	.41	
12/15-12/31	Seed	2	W-1	Broadcaster (rented)	40	.44	.22	75# seed
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
	Border up	1	W-2	Border disk (rented)	40	.22	.22	
	Irrigate 2X	1						10.8 ac. in.
6/1-7/1	Harvest - contract							
6/1-7/1	Haul - contract							

Source: Calculated from survey data.

TABLE 31

Calendar of Operations and Physical Inputs Per Acre for Producing Ensilage Corn
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man-hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-5D	7 1/2' offset disk	26	.70	.70	
	Plow	1	T-5D	2 way 2/16"	12	.75	.75	
	Furrow out	1	W-1	4-row lister planter	28	.32	.32	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate	1						4 ac. in.
	Fill in ditches*	1	T-5D	5' scraper		.20	.20	
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
6/25-7/10	Plant	2	W-2	4-row lister planter	29	.62	.31	12# seed
7/10-7/20	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
7/15-7/25	Irrigate	1						4 ac. in.
7/20-7/30	Cultivate & fertilize	1	W-2	4-row cultivator w/ 4-row fert. attach.	18	.50	.50	500# $(NH_4)_2SO_4$
8/1-8/10	Irrigate	1						4 ac. in.
8/5-8/15	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
8/10-9/10	Irrigate 3X	1						12 ac. in.
9/15-11/10	Chop & haul - contract							

* Occurs 4X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.

Date	Operation	Tractor	Implement	Hours per acre	Man-hours per acre	Tractor-hours per acre	Remarks
	Disk ZX	1	I-6D 7 1/2' cutout disk	26	.70	.70	
	Plow		T-5D 3 way 2/16"	12	.75	.75	
	Harrow out	1	W-1 4-row lister planter	28	.02	.02	
	Make head ditches*	1	T-5D 5' ditcher		.20	.20	
	Irrigate	1					4 ac. in.
	Fill in ditches*	1	T-5D 5' scraper		.20	.20	
	Harrow	1	W-1 12' spiketooth harrow	40	.22	.22	
6/25-7/10	Plant	2	W-2 4-row lister planter	22	.32	.31	12# seed
7/10-7/20	Cultivate	1	W-1 4-row cultivator	20	.15	.15	
7/15-7/25	Irrigate	1					4 ac. in.
7/20-7/30	Cultivate & fertilize	1	W-2 4-row cultivator w/ 4-row fert. attach.	18	.50	.50	500# $(NH_4)_2SO_4$
7/25-8/10	Irrigate	1					4 ac. in.
8/5-8/15	Cultivate	1	W-2 4-row cultivator	24	.38	.38	
8/20-9/10	Irrigate 4X	1					12 ac. in.
9/1-11/10	Chop & haul - contract						

* Course 4X - man-hours and tractor-hours are total for season.

* Course: Calculations from county agent.

TABLE 32

Inputs and Costs for Producing Cotton
320-acre Farm

Item	1953				1955			
	Acres: 130 — Yield: 1.3 bales				Acres: 72 — Yield: 1.6 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.52	977.60		6.50	7.51	540.80
Office		1.03	1.08	141.00		1.03	1.08	78.00
Improvements		2.61	2.74	356.42		2.61	2.74	197.16
Power			15.66	2,035.80			16.62	1,196.64
Equipment			21.72	2,823.60			36.26	2,610.72
Irrigation water			7.99	1,038.70			8.64	622.08
Total fixed			56.71	7,373.12			72.85	5,245.40
VARIABLE:								
Power:								
Tractor T-5D	2.15 hr.	1.13	2.42	314.60	2.15 hr.	1.10	2.35	169.20
Tractor W-1	1.31 hr.	.56	.74	96.20	1.31 hr.	.55	.72	51.84
Tractor W-2	5.45 hr.	.80	4.38	569.40	5.45 hr.	.86	4.67	336.24
Pickup	59.00 mi.	.03	1.96	254.80	61.00 mi.	.03	2.01	144.72
Truck	18.00 mi.	.06	1.04	135.20	16.00 mi.	.06	.88	63.36
Equipment:								
5' ditcher	.25 hr.	.14	.03	3.90	.25 hr.	.14	.04	2.88
5' scraper	.25 hr.	.14	.03	3.90	.25 hr.	.15	.04	2.88
Plow, 2w/2-16"	.75 hr.	.85	.63	81.90	.75 hr.	.83	.62	44.64
7 1/2' offset disk	.90 hr.	.60	.54	70.20	.90 hr.	.59	.53	38.16
12' spiketooth harrow	.22 hr.	.03		.83	.22 hr.	.02		.33
10' cultipacker	.27 hr.	.93	.25	32.50	.27 hr.	1.67	.45	32.40
4-row lister planter	.63 hr.	.67	.42	54.60	.63 hr.	.66	.42	30.24
4-row cultivator	2.36 hr.	1.30	3.08	400.40	2.36 hr.	1.60	3.78	272.16
4-row fertilizer attachment	.45 hr.	.51	.23	29.90	.45 hr.	.48	.22	15.84
1-row cotton picker	2.78 hr.	4.03	11.19	1,454.70	2.78 hr.	7.27	20.21	1,455.12
5-bale cotton trailer	1.50 hr.	.25	.37	48.10	1.50 hr.	.44	.67	48.24
2-row stalk cutter	.50 hr.	.25	.12	15.60	.50 hr.	.45	.23	16.56
Materials:								
Irrigation water	31.2 ac."	.24	7.55	981.50	36.0 ac."	.24	8.46	609.12
Seed	35 lb.	.08	2.80	364.00	35 lb.	.08	2.80	201.60
Fertilizer $(NH_4)_2SO_4$	400 lb.	.03	12.80	1,664.00	420 lb.	.03	13.44	967.68

(Continued on next page.)

Table 11

Tunnels and Ducts for Transmitting Cables

Item	Units used \/	Units \/	Cost per unit	Total cost	Units used \/	Units \/	Cost per unit	Total cost
	Column 1				Column 2			
	Labor				Material			
Real estate taxes		6.50	7.52	49.00			9.50	71.51
Office		1.32	1.00	1.00			1.00	1.00
Improvements		2.01	2.74	35.00			2.41	107.16
Power			15.66	2,027.00			16.02	1,156.04
Equipment			21.72	2,873.00			36.20	2,410.72
Installation water			7.00	1,040.20			[illegible]	[illegible]
Total fixed			5.71	7,017.12			72.83	5,256.44
VARIABLE:								
Labor								
Irrotor T-50	2.15 hr.	1.12	2.42	324.00	2.15 hr.		1.10	7.35
Irrotor W-1	1.21 hr.	.56	.74	96.20	1.31 hr.		.46	.72
Irrotor T-2	5.15 hr.	.50	4.39	500.40	5.45 hr.		.46	4.27
Pump	70.00 mi.	.03	1.06	2[illegible].00	81.00 mi.		.03	2.01
Tools	13.20 mi.	.06	1.04	1[illegible].20	71.00 mi.		.06	.58
Equipment:								
5' Lifter	.25 hr.	.14	.03	3.00	.25 hr.		.14	.04
1 Bulldozer	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
Plow, 12/2-15"	.75 hr.	.05	.63	81.00	.75 hr.		.05	.02
7 1/2' offset disc	.00 hr.	.05	.54	70.00	.00 hr.		.05	.53
12' spike tooth harrow	.22 hr.	.03		.09	.22 hr.		.02	.32
10' cultipacker	.27 hr.	.02	.25	32.50	.27 hr.		.07	.46
4-row fleuter:								
Runner	.63 hr.	.07	.42	54.00	.03 hr.		.06	.02
4-row cultivator	2.36 hr.	1.30	3.02	4[illegible].40	[illegible] hr.		1.[illegible]	3.18
4-row cultivator attachment	.45 hr.	.02	.23	29.00	.45 hr.		.45	.22
1-row cultivator								
6-row seeder								
Tractor	1.10 hr.	.25	.27	49.10	1.30 hr.		.44	.07
2-row static cutter	.00 mi.	.25	.12	15.60	.50 hr.		.45	.25
Irrigation:								
Irrigation water	31.2 ac.'	.34	7.55	981.00	36.0 ac.'		.24	8.60
Seed	35 lb.	.06	2.80	364.00	35 lb.		.05	2.10
Fertilizer								
(NH4)2SO4	400 lb.	.03	22.00	1,664.00	420 lb.		.03	1.[illegible]

(Continued on next page.)

Table 32 continued.

Item	1953				1955			
	Acres: 130 — Yield: 1.3 bales				Acres: 72 — Yield: 1.6 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Labor:								
Drivers	12.37 hr.	1.00	12.37	1,608.10	12.29 hr.	1.00	12.29	884.88
Irrigators	10.96 hr.	.90	9.86	1,281.80	12.66 hr.	.90	11.39	820.08
General	3.09 hr.	.90	2.78	361.40	3.09 hr.	.90	2.78	200.16
Soc. Sec. & Comp. Insur. b/			1.45	188.58			1.53	110.50
Contracts:								
Hand thin			5.00	650.00			5.00	360.00
Hand weed			5.00	650.00			5.00	360.00
Defoliate ($NaClO_3$ w/Borate or Mg.)	10 lb.		4.25	552.50	10 lb.		4.25	306.00
Dust 2X (5% DDT - 50% S)	60 lb.	.14	8.10	1,053.00	60 lb.	.14	8.10	583.20
Gin	1.3 bale	14.70	19.11	2,484.30	1.6 bale	14.70	23.52	1,693.44
Insur. & storage	1.3 bale	1.19	1.55	201.50	1.6 bale	1.19	1.90	136.80
Interest on operating capital c/			2.21	287.88			2.56	184.50
Total variable			122.26	15,895.29			140.86	10,142.77
Total cost			178.97	23,268.41			213.71	15,388.17

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5 percent.

Source: Calculated from survey data.

[illegible]

TABLE 33

Inputs and Costs for Producing Alfalfa
320-acre Farm

Item	1953				1955			
	Acres: 110 — Yield: 5.25 ton				Acres: 110 - Yield: 5.50 ton			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acres	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.56	832.00		6.50	7.37	811.20
Office		1.03	1.09	120.00		1.03	1.06	117.00
Improvements		2.61	2.76	303.33		2.61	2.69	295.75
Power			6.87	755.70			7.28	800.80
Equipment			6.58	723.80			6.57	722.70
Irrigation water			11.37	1,250.70			10.66	1,172.60
1/4 cost to establish stand			12.26	1,348.28			12.10	1,330.41
Total fixed			48.49	5,333.81			47.73	5,250.46
VARIABLE:								
Power:								
Tractor W-1	3.00 hr.	.56	1.69	185.90	3.00 hr.	.55	1.66	182.60
Tractor W-2	1.95 hr.	.80	1.57	172.70	1.95 hr.	.86	1.67	183.70
Pickup	30.00 mi.	.03	.98	107.80	30.00 mi.	.03	1.00	110.00
Truck	18.00 mi.	.06	1.04	114.40	16.00 mi.	.06	.88	96.80
Equipment:								
7' power mower	1.55 hr.	.18	.28	30.80	1.55 hr.	.18	.28	30.80
8' side delivery rake	1.45 hr.	.33	.47	51.70	1.45 hr.	.33	.47	51.70
2-wire hay baler	1.95 hr.	.78	1.51	166.10	1.95 hr.	.78	1.51	166.10
Materials:								
Irrigation water	44.4 ac."	.24	10.74	1,181.40	44.4 ac."	.24	10.43	1,147.30
Wire	5.25 ton	.50	2.62	288.20	5.50 ton	.50	2.75	302.50
Labor:								
Drivers	6.30 hr.	1.00	6.30	693.00	6.23 hr.	1.00	6.23	685.30
Irrigators	15.61 hr.	.90	14.05	1,545.50	15.61 hr.	.90	14.05	1,545.50
Soc. Sec. & Comp. Insur. b/			1.18	129.83			1.18	129.39
Contracts:								
Roadside c/	5.25 ton	1.75	9.19	1,010.90	5.50 ton	1.75	9.62	1,058.20
Total variable			51.62	5,678.23			51.73	5,689.89
Total cost			100.11	11,012.04			99.46	10,940.35

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.

[illegible]

TABLE 34

Inputs and Costs for Establishing an Alfalfa Stand
320-acre Farm

Item	1953				1955			
	Acres: 110				Acres: 110			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Power:								
T-5D tractor	2.52 hr.	3.77	9.49	1,043.90	2.52 hr.	3.61	9.09	999.90
W-1 tractor	.22 hr.	1.36	.30	33.00	.22 hr.	1.38	.30	33.00
W-2 tractor	.22 hr.	1.77	.39	42.90	.22 hr.	2.08	.46	50.60
Equipment:								
8' chisel	1.12 hr.	3.49	3.91	430.10	1.12 hr.	3.43	3.84	422.40
7 1/2' offset disk	1.40 hr.	1.16	1.62	178.20	1.40 hr.	1.12	1.57	172.70
8' spiketooth harrow	.35 hr.	.12	.04	4.40	.35 hr.	.09	.03	3.30
12' spiketooth harrow	.22 hr.	.18	.04	4.40	.22 hr.	.13	.03	3.30
Broadcaster (rented)	.22 hr.	.25	.06	6.60	.22 hr.	.25	.06	6.60
Materials:								
Irrigation water	8 ac."	.50	3.98	437.80	8 ac."	.48	3.80	418.00
Seed	25 lb.	.34	8.50	935.00	25 lb.	.34	8.50	935.00
Labor:								
Drivers	2.96 hr.	1.00	2.96	325.60	2.96 hr.	1.00	2.96	325.60
Irrigators	2.81 hr.	.90	2.53	278.30	2.81 hr.	.90	2.53	278.30
Soc. Sec. & Comp. Insur. b/			.32	35.03			.32	35.03
Contracts:								
Landplane 3X			12.00	1,320.00			12.00	1,320.00
Make borders			.75	82.50			.75	82.50
Dust (2% Parathion)	12.5 lb.		2.14	235.40	12.5 lb.		2.14	235.40
Total cost			49.03	5,393.13			48.38	5,321.63
Amount charged off annually			12.26	1,348.28			12.10	1,330.41

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

[illegible]

[illegible]

[illegible]

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and variable costs.

b/ 5.4 percent x total labor cost.

Source: Calculated from [illegible].

TABLE 35

Inputs and Costs for Establishing an Irrigated Pasture Stand
320-acre Farm

Item	1953 Acres: 35 Units used per acre a/	Unit cost a/	Cost per acre	Total cost	1955 Acres: 40 Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Power:								
T-5D tractor	2.52 hr.	3.77	9.49	332.15	2.52 hr.	3.61	9.09	363.60
W-1 tractor	.22 hr.	1.36	.30	10.50	.22 hr.	1.38	.30	12.00
W-2 tractor	.22 hr.	1.77	.39	13.65	.22 hr.	2.08	.46	18.40
Equipment:								
8' chisel	1.12 hr.	3.49	3.91	136.85	1.12 hr.	3.43	3.84	153.60
7 1/2' offset disk	1.40 hr.	1.16	1.62	56.70	1.40 hr.	1.12	1.57	62.80
8' spiketooth harrow	.35 hr.	.12	.04	1.40	.35 hr.	.09	.03	1.20
12' spiketooth harrow	.22 hr.	.18	.04	1.40	.22 hr.	.13	.03	1.20
Broadcaster (rented)	.22 hr.	.25	.06	2.10	.22 hr.	.25	.06	2.40
Materials:								
Irrigation water	8 ac."	.50	3.98	139.30	8 ac."	.48	3.80	152.00
Seed	10 lb.	.50	5.00	175.00	10 lb.	.50	5.00	200.00
Labor:								
Drivers	2.96 hr.	1.00	2.96	103.60	2.96 hr.	1.00	2.96	118.40
Irrigators	2.81 hr.	.90	2.53	88.55	2.81 hr.	.90	2.53	101.20
Soc. Sec. & Comp. Insur. b/			.32	11.14			.32	12.74
Contracts:								
Landplane 3X			12.00	420.00			12.00	480.00
Make borders			.75	26.25			.75	30.00
Total cost			43.39	1,518.59			42.74	1,709.54
Amount charged off annually			5.42	189.82			5.34	213.69

a/ Rounded.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

TABLE 35

[illegible]

Item	Units used per acre	Price per unit	Value per acre	Units used per acre	Price per unit	Value per acre
Seed:						
[illegible]	2.42 lb.	3.77	9.49	302.35	2.22 lb.	670.70
[illegible]	.32 lb.	1.36	.30	10.60	.22 lb.	1.33 .30	12.00
[illegible]	.32 lb.	1.27	.34	12.65	.22 lb.	1.08 .40	16.40
Fertilizer:							
[illegible]	1.12 lb.	3.49	3.91	140.25	1.12 lb.	4.43	1.24	154.00
[illegible]	1.40 lb.	1.10	1.02	50.70	1.40 lb.	1.12	1.27	64.00
[illegible]	.35 lb.	.12	.04	1.40	.35 lb.	.09	.02	1.20
[illegible]	.32 lb.	.04	.01	1.40	.32 lb.	.15	.03	1.20
[illegible]	.22 lb.	.25	.06	1.10	.22 lb.	.20	.05	2.10
Labor:								
[illegible]	8 man-hr.	.40	3.45	139.30	8 man-hr.	.48	4.24	172.00
Land	10 lb.	.50	5.00	175.00	10 lb.	[illegible]	[illegible]	[illegible]
Other:								
Interest	2.46 dol.	1.00	2.46	103.60	2.06 dol.	1.00	2.06	[illegible]
Irrigation	2.22 hr.	.50	3.53	98.55	2.81 hr.	.50	[illegible]	[illegible]
Tree. Sec. & Crop. Insur. b/			.32	11.14			[illegible]	[illegible]
Costs:								
Overhead c/				12.00	400.00		[illegible]	[illegible]
Land rental							[illegible]	[illegible]
Total cost							[illegible]	[illegible]
Income above cost summary							[illegible]	[illegible]

a/ Rounded.

b/ 5.8 percent of total labor cost.

c/ Based on farmers' survey data.

TABLE 36

Inputs and Costs for Maintaining Irrigated Pasture
320-acre Farm

Item	1953 Acres: 35 — Yield: 5,000 TDN				1955 Acres: 40 — Yield: 5,000 TDN			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		6.50	7.73	270.40		6.50	7.28	291.20
Office		1.03	1.11	39.00		1.03	1.05	42.00
Improvements		2.61	2.82	98.58		2.61	2.65	106.17
Power			4.23	148.05			4.41	176.40
Equipment			2.20	77.00			1.36	54.40
Irrigation water			15.36	537.60			14.40	576.00
1/8 cost to establish stand			5.42	189.82			5.34	213.69
Total fixed			38.87	1,360.45			36.49	1,459.86
VARIABLE:								
Power:								
Tractor W-1	.30 hr.	.56	.17	5.95	.30 hr.	.55	.17	6.80
Tractor W-2	1.44 hr.	.80	1.16	40.60	1.44 hr.	.86	1.23	49.20
Pickup	30 mi.	.03	.98	34.30	30 mi.	.03	1.00	40.00
Truck	18 mi.	.06	1.04	36.40	16 mi.	.06	.88	35.20
Equipment:								
7' tandem disk	.82 hr.	2.61	2.14	74.90	.82 hr.	1.52	1.25	50.00
8' spiketooth harrow	.82 hr.	.02	.02	.70	.82 hr.	.01	.01	.40
7' power mower	.62 hr.	.18	.11	3.85	.62 hr.	.18	.11	4.40
Equipment (rented):								
Fertilizer spreader	.30 hr.	1.00	.30	10.50	.30 hr.	1.00	.30	12.00
Materials:								
Irrigation water	60 ac."	.24	14.52	508.20	60 ac."	.24	14.10	564.00
Fertilizer (16-20)	200 lb.	.05	9.00	315.00	200 lb.	.05	9.00	360.00
Labor:								
Drivers	3.09 hr.	1.00	3.09	108.15	3.02 hr.	1.00	3.02	120.80
Irrigators	21.10 hr.	.90	18.99	664.65	21.10 hr.	.90	18.99	759.60
Soc. Sec. & Comp. Insur. b/			1.28	44.82			1.28	51.06
Total variable			52.80	1,848.02			51.34	2,053.46
Total cost			91.67	3,208.47			87.83	3,513.32

a/ Rounded.
b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

TABLE 26

Formula and Costs for Lightning Irrigated Pasture
320-Acre Farm

Item	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1	2	3	4	5	6
	Dollars					
[illegible]:						
[illegible]		0.50	7.78	270.00	0.00	7.00	421.20
[illegible]		1.63	1.11	38.00	1.63	1.07	42.00
Incrementals		1.01	2.00	68.00	[illegible]	[illegible]	100.17
[illegible]			4.38	148.00		[illegible]	[illegible]
[illegible]			2.20	77.00		1.[illegible]	[illegible]
[illegible] water			15.56	537.50		14.40	[illegible]
[illegible]							
[illegible]			3.42	[illegible]			
Total [illegible]			33.57	1,360.[illegible]			
[illegible]:							
[illegible]:							
Tractor [illegible]	.30 hr.	.56	.17	5.[illegible]	.30 hr.	.07	[illegible]
Tractor [illegible]	1.14 hr.	.30	1.16	40.[illegible]	1.44 hr.	.81	[illegible]
[illegible]	70 mi.	.03	.83	34.10	30 mi.	.05	1.[illegible]
Truck	[illegible]	.05	1.04	36.40	10 mi.		
[illegible]							
[illegible]	.50 hr.	2.01	[illegible]	7.00	.50 hr.	1.[illegible]	[illegible]
[illegible]							
[illegible]	.[illegible] hr.	.02	.02	.70	.02 hr.		
[illegible]	.32 hr.	.13	.11	3.85	.32 hr.		
[illegible]							
[illegible]							
[illegible]	.10 hr.	1.00	.20	10.50	.30 hr.	1.07	.30	12.00
[illegible]:							
Irrigation water	00 ac.'	.24	14.52	508.20	00 ac.'	.24	14.20	[illegible]
[illegible] (14-[illegible])	2.00 lb.	.08	6.00	210.00	250 lbs	.15	6.00	210.00
[illegible]:								
[illegible]	3.00 hr.	1.[illegible]			[illegible]	.06	[illegible]	
[illegible]	22.00 hr.	.60	[illegible]	[illegible]	[illegible]	.06	[illegible]	
[illegible]								
[illegible]								
[illegible]								
[illegible]								

TABLE 37

Inputs and Costs for Producing Barley
320-acre Farm

Item	1955 Acres: 40 — Yield: 22 cwt. Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		3.25	3.64	145.60
Office		.52	.52	21.00
Improvements		1.30	1.33	53.08
Power			4.95	198.00
Equipment			.81	32.40
Irrigation water			2.59	103.60
Total fixed			13.84	553.68
VARIABLE:				
Power:				
Tractor T-5D	.76 hr.	1.10	.83	33.20
Tractor W-1	.44 hr.	.55	.24	9.60
Tractor W-2	.22 hr.	.86	.19	7.60
Pickup	30 mi.	.03	1.00	40.00
Truck	16 mi.	.06	.88	35.20
Equipment (owned):				
7 1/2' offset disk	.35 hr.	.59	.21	8.40
7' tandem disk	.41 hr.	1.52	.62	24.80
8' spiketooth harrow	.41 hr.	.01		.23
12' spiketooth harrow	.22 hr.	.02		.18
Equipment (rented):				
Border disk	.22 hr.	.50	.11	4.40
Broadcaster	.22 hr.	.25	.06	2.40
Materials:				
Irrigation water	10.8 ac."	.24	2.54	101.60
Seed	75 lb.	.04	3.00	120.00
Labor:				
Drivers	2.70 hr.	1.00	2.70	108.00
Irrigators	3.80 hr.	.90	3.42	136.80
General	.22 hr.	.90	.20	8.00
Soc. Sec. & Comp. Insur. b/			.37	14.66
Contracts:				
Harvest			5.00	200.00
Haul	22 cwt.	.10	2.20	88.00
Interest on operating capital c/			.52	20.88
Total variable			24.09	963.95
Total cost			37.93	1,517.63

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ Total of variable costs (less operator labor) ÷ 2, x 5 percent.

Source: Calculated from survey data.

Inputs and costs for Producing Sweet-[illegible]

Item	Per acre	Per ton	Total
	Amount	Cost per unit	Cost
Fixed costs:			
Fixed costs, [illegible]	[illegible]	[illegible]	[illegible]
[illegible]			
[illegible]			
Interest		[illegible]	[illegible]
Depreciation		[illegible]	[illegible]
Irrigation water		[illegible]	[illegible]
Total fixed		[illegible]	[illegible]
Variable:			
Seed:			
Tuscan [illegible]	.76 lbs.	[illegible]	[illegible]
Tuscan [illegible]	.44 lbs.	[illegible]	[illegible]
Tuscan [illegible]	.22 lbs.	[illegible]	[illegible]
Sloop	30 oz.	[illegible]	[illegible]
Trucks	16 hr.	.85	[illegible]
Implements (cont.):			
7 1/2' [illegible]	.75 hrs.	.21	[illegible]
7' tandem disk	.41 hr.	[illegible]	[illegible]
6' spike-tooth harrow	.41 hr.	.02	[illegible]
12' spike-tooth harrow	.22 hr.	.02	[illegible]
Fuel (cont.):			
Tractor disk	.22 hr.	.50	[illegible]
Harvester	.12 hr.	.20	[illegible]
Harvesting:			
Harvesting water	[illegible]	.24	[illegible]
Seed	75 lb.	.04	[illegible]
Labor:			
Drivers	2.00 hr.	1.00	[illegible]
Irrigators	3.80 hr.	.90	[illegible]
Hoers	.12 hr.	.90	.25	[illegible]
Overhead:			
Transport			[illegible]
Rent	22 cwt.	.10	2.20	[illegible]
Interest on operating capital 6%			[illegible]
Total variable			[illegible]

a/ Rounded.

b/ [illegible] x total labor costs.

c/ Total variable costs (less overhead items) ÷ 2[illegible] x [illegible] tons.

TABLE 38

Inputs and Costs for Producing Ensilage Corn
320-acre Farm

Item	1955 Acres: 60 — Yield: 15 ton			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		6.50	4.85	291.20
Office		1.03	.70	42.00
Improvements		2.61	1.77	106.17
Power			9.50	570.00
Equipment			3.44	206.40
Irrigation water			5.76	345.60
Total fixed			26.02	1,561.37
VARIABLE:				
Power:				
Tractor T-5D	1.85 hr.	1.10	2.03	121.80
Tractor W-1	.54 hr.	.55	.30	18.00
Tractor W-2	1.64 hr.	.86	1.40	84.00
Pickup	30 mi.	.03	1.00	60.00
Truck	16 mi.	.06	.88	52.80
Equipment:				
5' ditcher	.20 hr.	.14	.03	1.80
5' scraper	.20 hr.	.15	.03	1.80
Plow, 2w/2-16"	.75 hr.	.83	.62	37.20
7 1/2' offset disk	.70 hr.	.59	.41	24.60
12' spiketooth harrow	.22 hr.	.02		.28
4-row lister planter	.63 hr.	.66	.42	25.20
4-row cultivator	1.33 hr.	1.60	2.13	127.80
4-row fertilizer attachment	.50 hr.	.48	.24	14.40
Materials:				
Irrigation water	24 ac."	.24	5.64	338.40
Seed	12 lb.	.26	3.12	187.20
Fertilizer $(NH_4)_2SO_4$	500 lb.	.03	16.00	960.00
Labor:				
Drivers	5.31 hr.	1.00	5.31	318.60
Irrigators	8.44 hr.	.90	7.60	456.00
Soc. Sec. & Comp. Insur. b/			.75	44.93
Contracts:				
Shop, haul, unload	15 ton	2.25	33.75	2,025.00
Interest on operating capital c/			1.06	63.90
Total variable			82.72	4,963.71
Total cost			108.74	6,525.08

a/ Rounded.
b/ 5.8 percent x total labor cost.
c/ Total variable costs (less operator labor, chopped, hand and unload) ÷ 2, x 5 percent.

Source: Calculated from survey data.

TABLE 39

Farm Product Selling Prices, 1953 and 1955

Product	Unit	1955	1953
	1	2	3
Alfalfa hay	ton	$ 26.00	$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt.	2.15	2.70
Corn	cwt.	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt.	2.30	2.75
Potatoes (early)	cwt.	1.85	1.42
Sugar beets	ton	13.50	13.50

TABLE 40

Farm Service Purchasing Prices, 1953-1955

Labor rates

1	2
Tractor driver	$1.00 per hr.
Pickup driver	1.00 per hr.
Truck driver	1.00 per hr.
Irrigator	.90 per hr.
General	.90 per hr.
Compensation Insurance	3.8% of labor cost
Social Security	2.0% of labor cost

Equipment rentals

4' ditcher	$ .50 per hr.
4' scraper	.50 per hr.
10' x 60' landplane	2.00 per hr.
Border disk	.50 per hr.
12' springtooth	.50 per hr.
2-row planter	.50 per hr.
Fertilizer attachment	.50 per hr.
Fertilizer spreader	1.00 per hr.
Stalk cutter	1.00 per hr.
Broadcaster	.25 per hr.

Contract Services

Alfalfa

Bale	ton	$ 3.50
Roadside	ton	1.75
Bees	colony	5.00
Weed	acre	15.00
Harvest	lb.	.03
Certify	acre	10.12
Box rental	acre	1.00
Fertilize (super phosphate)-(appln.)	acre	1.10

Contract services (continued)

3	4	5
Dust (5% DDT - 75% S) - (application)	lb.	$ .04
Defoliate (1 qt. sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Dust (2% Parathion)-(appln.)	lb.	.05

Barley

Harvest	acre	$ 5.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	

Corn

Chop, haul, unload	ton	$ 2.25
Shell	cwt.	.125
Pick	acre	10.00
Haul	cwt.	.10
Dry	cwt.	.175
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	
Fertilize (NH_3)-(appln.)	acre	1.75

Cotton

Hand thin	acre	$ 5.00
Hand weed	acre	5.00
Pick (hand)	bale	42.00
Pick (machine)	bale	24.50
Gin	bale	14.70
Insurance & storage	bale	1.19
Dust (5% DDT - 50% S) - (application)	lb.	.05
Defoliate ($NaClO_3$ w/Borate or Mg)-(application)	acre	2.50
Fertilize (NH_3)-(appln.)	acre	1.50
Gypsum - (appln.)	ton	1.50

(continued on next page.)

Contract services (cont'd/cont'd)

Lower mulcher	15.00 per hr.	Mat (50 PMT - 50% S) - (application)	lb.	5 .04
Rubber tubing	1.0 per hr.			
	1.00 per hr.	Herbicide (I lt. mixed in 10 gal. diesel oil)-(applic.)	acre	2.50
Tractor w	40 per hr.	Mat (3% Permethrin)-(applic.)	lb.	.02
	40 per hr.			
Transportation Truckers	[illegible] cc cost	Seed		
	0.[illegible] cc labor cost	Harvest	acre	[illegible]
		Seed	cwt.	.10
		Fertilizer	cwt.	.04
		Insurance	31.[illegible] per [illegible]00 of value	
[illegible]	[illegible] per hr.			
		Core		
10' - 40' ladder-on	[illegible]	Mat	ton	5 2.25
	[illegible]			
	[illegible]			
	[illegible]		cwt.	.10
Vertilizer spreader	[illegible]			
Fertilizer pressure	[illegible]			
	[illegible]			
Transmitter	[illegible]			81.20 per 4200 of value
		Fertilize (N,P,)-(applic.)	acre	1.50
Contract labor		Lime		
		Lime, bulk	acre	3 3.50
Rail ties	ton	Seed wood	acre	5.00
Railing	ton	Plot (bare)	bale	45.00
[illegible]	[illegible]		bale	45.00
Seed	acre	Cr		
Cement lb.	[illegible]	Insurance & average	bale	1.15
Crushed stone	[illegible]	Mat (5% DMT - 50% S) - (application)	lb.	.05
Fertilize (sugar [illegible]		Herbicide (NaClO$_3$ without or Na)-(application)	acre	2.50
(applic.)	acre	[illegible]	acre	1.50
		[illegible]	lb.	1.25

(continued on next page)

Table 40 continued.

Contract services (continued)

	1	2
Melons		
Turn vines	acre	$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP- (appln.)	lb.	.05
Fertilize (NH_3)-(appln.)	acre	1.25
Milo		
Harvest	acre	$ 6.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	
Potatoes		
Rotobeat	acre	$ 3.00
Dig	acre	12.00
Pick	cwt.	.16
Haul	cwt.	.075
Shed costs	cwt.	.55
Dust (5% DDT - 50% S)-(application)	lb.	.05
Sugar beets		
Thin	acre	12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH_3) - (application)	acre	1.25

Contract services (continued)

	3	4	5
Preparing seedbed			
Disk	acre	$1.50	
Chisel	acre	2.75	
Landplane	acre	4.00	
Make borders	acre	.75	

Table 40 continued.

Contract services (continued)			Contract services (continued)		
1		2	3		4
[illegible]			[illegible]		
Farm value	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chop, wood	acre	25.00	Chisel	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	acre	1.49	Make furrows	[illegible]	[illegible]
Dust 3% DDT - (applic.)	lb.	.05			
3% TMPP- (applic.)	lb.	.05			
[illegible]	[illegible]	[illegible]			
Milk					
Harvest	acre	$ 6.00			
Haul	cwt.	.10			
[illegible]	[illegible]	[illegible]			
Insurance	$1.50 per $100 of value				
[illegible]					
Potatoes	acre	$ 3.00			
Dig	acre	12.00			
Pick	cwt.	.15			
Haul	cwt.	.075			
Shed costs	cwt.	.05			
Dust (3% DDT - 50% S)- (application)	lb.	.05			
Other crops					
[illegible]	[illegible]	[illegible]			
Seed	acre	6.00			
[illegible]	[illegible]	[illegible]			
Haul	acre	15.00			
Rectify (NH_3) - (application)	acre	1.25			

TABLE 41

Farm Materials Purchasing Prices, 1953-1955

	1	2
Alfalfa		
Seed (common)	lb.	$ .32
Seed (caliverde)	lb.	.34
Seed (certified ranger)	lb.	.40
Fertilizer (super phosphate)	lb.	.020
Dust (5% DDT - 75% S)	lb.	.0925
Dust (2% Parathion)	lb.	.121
Sinox defoliate (1 qt. applied in 10 gal. diesel oil)	qt.	2.90
Baling wire	ton	.50
Barley		
Seed	lb.	.04
Corn		
Seed	lb.	.26
Fertilizer (NH_4SO_4)	lb.	.032
Fertilizer (NH_3)	lb.	.105
Cotton		
Seed (acid delinted)	lb.	.115
Seed (machine delinted)	lb.	.081
Fertilizer (NH_4SO_4)	lb.	.032
Dust (5% DDT - 50% S)	lb.	.085
Defoliant ($NaClO_3$ w/ Borate or Mg)	lb.	.175
Fertilizer (NH_3)		1/
Gypsum	ton	2.50
Melons		
Seed	lb.	1.45
Dust 5% DDT	lb.	.07
1% TEPP	lb.	.16
Fertilizer (NH_3)	lb.	.085

	3	4
Milo		
Seed	lb.	$ .08
Permanent pasture		
Seed	lb.	.50
Fertilizer (16-20)	lb.	.045
Potatoes		
Seed (cut & dipped)	cwt.	6.30
Fertilizer (17-7-0)	lb.	.0375
Dust (5% DDT - 50% S)	lb.	.085
Sugar beets		
Seed	lb.	.46
Fertilizer (NH_3)	lb.	.095

1/ $ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .085/lb. for 50 tons and over.

Table 2 :

[illegible]

	1	2	3	4	5
[illegible]			[illegible]		
[illegible] (formula)	lb.	2.22	Seed	lb.	[illegible]
[illegible] (formula)	lb.	.34			
Seed (seed [illegible])	lb.	.40	[illegible]		
[illegible]			Seed	lb.	.30
[illegible] (fertilizer)	lb.	.20	Fertilizer (16-20)	lb.	.07
[illegible]	lb.	.0125			
[illegible] (fertilizer)	lb.	.161	[illegible]		
[illegible]			Seed (corn [illegible])	lb.	0.30
[illegible]			Fertilizer (27-7-0)	lb.	1.275
[illegible]	lb.	[illegible]	[illegible] (fertilizer - [illegible])	lb.	.0[illegible]
[illegible]	hour	.50			
[illegible]			[illegible]		
Seed	lb.	.04	Seed	lb.	.01
			Fertilizer (N_2)	lb.	.065
[illegible]					
[illegible]	lb.	.02			
[illegible]	lb.	.065			
Fertilizer (In_2)	lb.	.100			
[illegible]					
Seed (seed [illegible])	lb.	.115			
[illegible] ([illegible])	lb.	.065			
Fertilizer (NH_4SO_4)	lb.	.032			
[illegible] (fertilizer - [illegible])	lb.	.038			
[illegible]					
[illegible] (or [illegible])	lb.	.172			
[illegible] ($[illegible]_2$)					
[illegible]	hour	2.00			
[illegible]					
Seed	lb.	[illegible]			
[illegible] ($[illegible]_2$)	lb.	.[illegible]			
[illegible]	lb.	.16			
Fertilizer ([illegible])	lb.	.065			

1/ [illegible] for [illegible] tons; .025/lb. on 50-60 tons; .015/lb. for 60 tons and over.

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

5. San Joaquin Valley Westside Cotton Farms, 1953–1955

Douglas D. Caton
Trimble R. Hedges
W. Neill Schaller

CALIFORNIA AGRICULTURAL EXPERIMENT STATION
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS
In Cooperation with FARM ECONOMICS RESEARCH DIVISION
AGRICULTURAL RESEARCH SERVICE, U.S.D.A

Mimeographed Report No. 212 September 1958

ACKNOWLEDGMENTS

This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the San Joaquin Valley Westside resulted from a study by the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Farm Economics Research Division, Agricultural Research Service, U. S. Department of Agriculture.

H. Russell Shaw, Assistant Professor of Agricultural Economics, and Assistant Agricultural Economist in the Experiment Station, and on the Giannini Foundation, had major responsibility in collecting the field data, as did Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation. The latter also shared in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head, Western Field Research Section, and M. L. Upchurch, Head, Western Field Research Section, all of the Farm Economics Research Division, participated in outlining and developing the project research plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

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CONTENTS

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(A Statistical Supplement to Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments)

5. San Joaquin Valley Westside Cotton Farms; 1953-1955[1/]

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller[2/]

FOREWORD

We present in the following pages detailed information assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the San Joaquin Valley Westside. We obtained these data by interviewing farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of two farm sizes; these include 1,100- and 2,800-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful to others who are studying the organization and internal workings of family farms in these two sizes. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Table 1 presents factual information on soils and Tables 2 and 3 present data obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. The latter two tables indicate farm size, numbers, and cropland use from 1953 to 1955. Succeeding tables deal with the two farm size models that we analyzed. The data for the 1,100-acre unit will serve to indicate the kind and amount of information that this report includes for each farm size. First appears Table 4. Physical Resources and Investments for the Typical 1,100-acre Farm, 1955 Prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-15 include the physical inputs and costs for producing or maintaining cotton, other crops and fallow on the 1,100-acre farm model.

Subsequent tables repeat this same sequence for the other farm size (Tables 14-20 for all three 2,800-acre models, and tables 21-23, 24-27 and 28-31 for the 2,800-1, 2,800-2, and 2,800-3 models, respectively.

The last three tables in this statistical supplement contain the prices for farm products (Table 32), input services hired or rented (Table 33), and materials (Table 34).

1/ This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments. 4. San Joaquin Valley Westside Cotton Farms, 1953-1955, Giannini Mimeographed Report No. 211, the fifth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(w), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

2/ Douglas D. Caton and W. Neill Schaller are Agricultural Economists, Farm Economics Research Division, Western Field Research Section, Agricultural Research Service, U. S. Department of Agriculture, and Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.

INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings [illegible])

3. San Joaquin Valley Westside Cotton Farms: 1953-1955[1]

Douglas G. Caton, Trimble R. Hedges, and W. Neill Schaller[2]

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The last three tables in this statistical supplement contain the prices for farm products (Table 32), input services hired or rented (Table 33), and materials (Table 34).

1/ This statistical supplement is a companion report to Caton, Douglas G., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under [illegible] Acreage Allotments, 1954-1955, [illegible] Mimeographed Report No. 41, the fifth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research came under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE 63-3(m), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

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TABLE 1

Soils by Grades; Western Fresno County

Grade	Series	Acres	Percentages of grade	Percentages of total
	1	2	3	4
I	Panoche	387,900	92.7	43.0
	Panhill	26,650	6.4	3.0
	Columbia	3,600	.9	.4
	Sorrento	75	.0 a/	.0 a/
	Subtotal	418,225	100.0	46.4
II	Panoche	108,400	82.0	12.0
	Lost Hills	13,400	10.1	1.5
	Panhill	4,000	3.0	.4
	Temple	3,600	2.7	.4
	Ortigalita	1,300	1.0	.1
	Sorrento	900	.7	.1
	Columbia	600	.5	.1
	Subtotal	132,200	100.0	14.6
III	Oxalis	56,500	51.4	6.3
	Kettleman	15,750	14.3	1.7
	Temple	12,800	11.6	1.4
	Lost Hills	7,600	6.9	.8
	Lethent	5,400	4.9	.6
	Panoche	5,100	4.6	.6
	Merced	2,700	2.5	.3
	Ortigalita	2,500	2.3	.3
	Los Banos	1,600	1.5	.2
	Subtotal	109,950	100.0	12.2
IV	Kettleman	39,900	33.4	4.4
	Merced	34,050	28.5	3.8
	Oxalis	33,500	28.1	3.7
	Other	11,900	10.0	1.3
	Subtotal	119,350	100.0	13.2
V	All series	122,675	100.0	13.6
	Total land	902,400		100.0

a/ Less than .1 percent.

Source: Calculated from survey data.

TABLE 1

Soils by Grades: Eastern Fresno County

[illegible]	307,900	22.7	40.0
[illegible]	26,950	6.4	[illegible]
Coalinga	3,600	.3	.4
Somewhat [illegible]	75	.0[a]	[illegible]
Total [illegible]	[illegible]	[illegible]	[illegible]
[illegible]	108,400	8.0	[illegible]
Lost Hills	[illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3,400	2.7	[illegible]
[illegible]	1,300	1.0	[illegible]
[illegible]	900	.7	[illegible]
[illegible]	600	[illegible]	[illegible]
Total [illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	19,700	14.3	1.7
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7,800	0.9	.8
[illegible]	5,400	4.0	.6
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2,800	2.0	.3
Lost Hills	1,600	1.1	.2
Subtotal	109,900	100.0	12.2
[illegible]	39,900	32.4	[illegible]
Arvand	34,050	20.5	3.8
Oxalis	23,800	28.1	3.7
[illegible]	[illegible]	10.0	1.2
Subtotal	[illegible]	[illegible]	[illegible]
All soils	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

a/ Less than .1 percent.

Source: Calculated from survey data.

TABLE 2

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955:
San Joaquin Valley Westside

Cropland class intervals	Number of farms	Cropland		Total cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 a/	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 420	24	196.3	4,711	2,115	2,134	1,620	1,283	- 495	- 832
421 - 660	17	574.4	9,764	4,596	5,095	3,033	2,417	- 1,563	- 2,179
661 - 1,100	21	922.2	19,366	6,790	6,414	4,492	3,593	- 2,298	- 3,197
1,101 - 2,000	105	1,427.1	149,842	67,800	67,089	45,180	36,079	- 22,620	- 31,721
2,001 - 5,000	92	3,192.0	293,663	106,291	110,170	72,812	58,128	- 33,479	- 48,163
5,001 & over	45	17,238.9	775,752	210,309	212,082	140,744	112,364	- 69,565	- 97,945
Total	304	4,122.0	1,253,098	397,901	402,984	267,881	213,864	-130,020	-184,037

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee--includes Western Fresno County and portions of Kern, Kings, and Merced counties.

TABLE 2

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955:
San Joaquin Valley Westside

Complete class interval/	Number of farms	Acres per farm		Total average	Total cotton acres allotment 1954	Total cotton acres planted	Total average	Acres diverted average
		1954	1955	1954-1955				
		Acres						
1 - 100	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
101 - 500	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
501 - 1,000	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1,001 - 2,000	108	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2,001 - 3,000	92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3,001 & over	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total	297	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee, Farm Files (Small) and records of Farm Clerk, Cotton, and Second Counties.

TABLE 3

Land Use on Cotton Farms, 1953-1955: San Joaquin Valley Westside

Cropland class intervals	Mid-point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
			total	average	number reporting	total	number reporting	total	total	average
	1	2	3	4	5	6	7	8	9	10
1 - 420	210	3	679	226.3			1	40	719	239.7
421 - 660	540	8	5,673	709.1			2	2,203	7,876	984.5
661 - 1,100	880									
1,101 - 2,000	1,550	35	50,028	1,429.4	2	200	15	9,630	59,858	1,710.2
2,001 - 5,000	3,500	38	123,578	3,252.1	1	115	16	11,444	135,137	3,556.2
5,001 & over		18	340,146	18,897.0			7	21,031	361,177	20,065.4
Total		102	520,104	5,099.1	3	315	41	44,348	564,767	5,536.9

Source: Questionnaire returns, 1954.

TABLE 2

Land Use on Cotton Farms, 1955-1959: San Joaquin Valley Westside

Acreage classes	Mid-point	Number of farms	Net crop acres: total	Net crop acres: average	Number irrigated: total	Number irrigated: average	Total	Average
1	2	3	4	5	6	7	8	9
1 - 400	210	3	579	226.3		1	40	719	239.7
421 - 660	540	8	5,075	709.1		4	2,203	7,876	984.5
661 - 1,100	880								
1,101 - 2,000	1,550	35	50,025	1,429.4	2	15	9,450	59,555	1,710.3
2,001 - 3,000	[illegible]	[illegible]	[illegible]	[illegible]	1	16	[illegible]	[illegible]	[illegible]
3,001 & over		18	349,146	19,397.0		7	[illegible]	[illegible]	[illegible]
Total		102	520,104	5,099.1	[illegible]	43	[illegible]	[illegible]	[illegible]

TABLE 4

Physical Resources and Investments for Typical 1,100-acre Farm, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
	1	2	3	4	5	6
			dollars			
Land:						
Total	1,100 acres					
Total cultivated	1,050 acres					
Improvements:						
Tenant houses	2-bedroom	2	3,000.00	6,000.00	1,500.00	3,000.00
Labor cabins		10	500.00	5,000.00	250.00	2,500.00
Shop storage b/		1		5,000.00		2,500.00
Tractor, equipment shed		1		2,000.00		1,000.00
Grain storage	1,000 tons			10,000.00		5,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Fuel storage - diesel	1,000 gallons	1		231.00		115.50
Subtotal				28,366.00		14,183.00
Irrigation system:						
Pumping plant	150 h.p.; 1,400 g.p.m.	2	13,000.00	26,000.00	6,662.50	13,325.00
Well, casing	16" diameter; 350' lift	2x1,400'	10.00	28,00.00	5.00	14,000.00
Pipe	12"	10,560'	.80	8,448.00	.40	4,224.00
Stands	8' - 36"	4	72.00	288.00	36.00	144.00
Vents	8' - 8"	6	5.60	33.60	2.80	16.80
Line gates	12"	6	51.00	306.00	25.50	153.00
Alfalfa valves	10"	80	15.00	1,200.00	7.50	600.00
Siphons	3/4" - 2"	1,000	1.25	1,250.00	.63	625.00
Subtotal				65,525.60		33,087.80
Power:						
Tracklayer	T-5D (35-45 h.p.)	1		7,000.00		3,850.00
Tracklayer	T-7D (60-70 h.p.)	1		11,225.00		6,173.75
Wheel tractor c/	W-1 (20-25 h.p.)	1		2,600.00		1,820.00
Wheel tractor	W-2 (25-35 h.p.)	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup.	1/2-ton	2	2,000.00	4,000.00	1,200.00	2,400.00
Truck	1 1/2-ton	2	2,800.00	5,600.00	1,470.00	2,940.00
Subtotal				36,425.00		21,383.75

(Continued on next page.)

TABLE 4

Physical Resources and Investments for Typical 1,100-acre Farm, 1966 Prices

Item	Size	Number	Cost	Depreciation	Interest	Operating costs
Land:						
Total	1,100 acres					
Total cultivated	1,050 acres					
Buildings:						
Farmer house	2-bedroom	2	3,000.00	6,000.00	1,800.00	2,000.00
Farm cabins		10	800.00	5,000.00	250.00	2,500.00
Shop		1		5,000.00		2,500.00
Tractor, equipment shed		1		2,000.00		1,000.00
Grain storage	1,000 tons			10,000.00		5,000.00
Fuel storage - gas	550 gallons	1		150.00		67.50
Fuel storage - diesel	1,000 gallons	1		225.00		115.00
Subtotal				28,300.00		14,182.50
Irrigation plant						
Well, casing	150 h.p.; 1,400 g.p.m.; 16" diameter; 350' lift	2	13,000.00	26,000.00	6,660.50	13,322.00
Pipe	12"	2,400'	10.00	24,000.00	5.00	14,000.00
Stands	8' - 36"	10,000'	.80	8,000.00	.10	2,200.00
Vents	8' - 8"	4	72.00	288.00	36.00	144.00
Line gates	12"	6	5.60	33.60	2.80	16.80
Air/vac valves	10"	6	51.00	306.00	25.50	153.00
Siphons	3/4" - 2"	80	15.00	1,200.00	7.50	600.00
Subtotal		1,000	1.20	1,200.00	.60	600.00
				65,326.60		33,036.30
Equipment:						
T-50 (25-45 h.p.)		1		7,000.00		3,850.00
T- (40-60 h.p.)						
Wheel tractor c/ W-1 (40-60 h.p.)		1		2,000.00		1,000.00
Wheel tractor W-2 (25-45 h.p.)		2	3,000.00	6,000.00	2,100.00	4,200.00
Harvester	2-row	2	2,000.00	4,000.00	1,300.00	2,400.00
Truck	1 1/2-ton	2	2,400.00	[illegible]	[illegible]	[illegible]

(Continued on next page.)

Table 4 Continued.

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
	1	2	3	4	5	6
			dollars			
Equipment:						
Ditcher	5'	1		140.00		70.00
Scraper	10'	1		520.00		260.00
Plow - disk-plow	6-blade	1		1,750.00		875.00
Chisel	8'	1		525.00		262.50
Disk, offset d/	10'	1		825.00		412.50
Disk, offset	12'	1		1,050.00		525.00
Disk, offset	16'	1		1,450.00		725.00
Border disk		1		175.00		87.50
Spiketooth harrow	5' section	6	50.00	300.00	25.00	150.00
Springtooth harrow d/	12'	1		240.00		120.00
Cultipacker	14'	1		450.00		225.00
Drag or float c/	12' x 20'	1		150.00		75.00
Lister	4-row	1		350.00		175.00
Lister planter	4-row	1		550.00		275.00
Cultivator	4-row	2	1,000.00	2,000.00	500.00	1,000.00
Fertilizer attachment c/	4-row	1		150.00		75.00
Cotton picker	1-row	2	8,700.00	17,400.00	5,220.00	10,440.00
Cotton trailer c/	4-bale	3	350.00	1,050.00	192.50	577.50
Cotton trailer	5-bale	4	400.00	1,600.00	220.00	880.00
Cotton trailer c/	6-bale	3	450.00	1,350.00	247.50	742.50
Stalk cutter	2-row	1		325.00		162.50
Grain drill	14'	1		850.00		425.00
Grain elevator c/		1		350.00		175.00
Grain unloader c/		1		350.00		175.00
Subtotals						
1955				33,900.00		18,890.00
1953				32,835.00		18,357.50
Totals						
1955				164,216.60		87,544.55
1953				163,151.60		87,012.05

a/ $\frac{\text{Original cost + Salvage value}}{2}$ Salvage values are listed in Table 11.

b/ Includes $2,000 worth of tools, equipment, and parts.

c/ Standby equipment owned but not used in 1953 or 1955.

d/ Equipment bought in 1955.

Source: Calculated from survey data.

Table 4 Continued.

Item	Size or capacity		New cost		Average investment a/	
					Total	Per unit
Implements:						
Drifter	5'	1	140.00			70.00
Scraper	10'	1	520.00			260.00
Plow - disk-plow	3-blade	1	1,750.00			875.00
Chisel	9'	1	525.00			262.50
Disk, offset b/	10'	1	825.00			412.50
Disk, offset	12'	1	1,050.00			525.00
Disk, offset	16'	1	1,450.00			725.00
Border disk		1	175.00			87.50
Spiketooth						
harrow	5' section	6	50.00	300.00	25.00	150.00
Springtooth						
harrow b/	12'	1	240.00			120.00
Cultipacker	14'	1	450.00			225.00
Drag or float b/	12' x 20'	1	150.00			75.00
Lister	3-row	1	150.00			75.00
Lister planter	4-row	1	550.00			275.00
Cultivator	4-row	2	2,000.00	1,000.00	500.00	1,000.00
Fertilizer						
attachment b/	4-row	1	150.00			75.00
Cotton picker	1-row	2	8,700.00	17,400.00	5,220.00	10,440.00
Cotton						
trailer c/	4-bale	3	350.00	1,050.00	192.50	577.50
Cotton trailer	3-bale	4	400.00	1,600.00	520.00	880.00
Cotton						
trailer c/	6-bale	3	450.00	1,350.00	247.50	742.50
Stalk cutter	2-row	1	325.00			162.50
Deep drill	14'	1	850.00			425.00
Cane						
elevator b/		1	350.00			175.00
Cane unloader c/		1	500.00			125.00
Subtotals						

a/ Original cost + salvage value. Salvage values are listed in Table 11.

b/ Include $2,000 worth of tools, equipment, and parts.

c/ Standby equipment owned but not used in 1953 or 1955.

d/ Equipment bought in 1955.

Source: Calculated from survey data.

TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, 1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-2	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	T-7D	16' offset disk	40	.44	.44		
	Chisel	1	T-7D	8' chisel	20	.45	.45		
	Disk	1	T-7D	16' offset disk	40	.22	.22		
	Landplane 2X	1	T-7D	10'x60' landplane(rented)	25	.72	.72		
	Furrow out	1	W-2	4-row lister	36	.25	.25		
	Make head ditches*	1	T-5D	5' ditcher		.30	.30		
	Preirrigate							7.2 ac.in.	7 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.30	.30		
	Disk	1	T-7D	16' offset disk	40	.22	.22		
	Harrow	1	T-7D	30' spiketooth	100	.09	.09		
4/1 - 4/15	Plant	2	W-2	4-row lister-planter	29	.62	.31	18# acid delint	
	Cultipack	1	T-5D	14' cultipacker	50	.18	.18		
5/1 - 5/15	Cultivate	1	W-2	4-row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-2	4-row cultivator	22	.41	.41		
	Fertilize - Contract							135# NH_3	152# NH_3
	Irrigate (1)							5 ac.in.	5 ac.in.
	Hand weed - Contract								
	Cultivate (3)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (2)							5 ac.in.	5 ac.in.
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
6/15 - 8/15	Dust 2X - Contract							60# of 5% DDT	50% S
	Irrigate (3)							5 ac.in.	5 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (4)							5 ac.in.	5 ac.in.

(Continued on next page.)

TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, [illegible]

Date	Operation	Equipment			Time	Fertilizer	
		No.	Type	Implement	Hr.	Kind	Rate
	Set [illegible]	1	[illegible]	[illegible]	[illegible]		
	Disk 2X	1	T-7D	16' offset disk	[illegible]		
	Chisel	1	T-7D	8' chisel	20		
	Disk	1	T-7D	16' offset disk	40		
	Landplane 2X	1	T-7D	10'x60' landplane(rented)	25		
	Furrow out	1	W-2	4-row lister	36		
	Make head ditches*	1	T-5D	5' ditcher			
	Preirrigate						
	Fill in ditches*	1	T-5D	10' scraper			
	Disk	1	T-7D	16' offset disk	40		
	Harrow	1	T-7D	30' spiketooth	100		
4/1 - 4/15	Plant	2	W-2	4-row lister-planter	29		
	Cultimack	1	T-5D	14' cultimacker	50		
5/1 - 5/15	Cultivate	1	W-2	4-row cultivator	20		
	Hand thin - Contract						
	Cultivate (2)	1	W-2	4-row cultivator	22		
	Fertilize - Contract						135# NH_3
	Irrigate (1)					5 ac.in.	5 ac.in.
	Hand weed - Contract						
	Cultivate (3)	1	W-2	4-row cultivator	26		
	Irrigate (2)					5 ac.in.	5 ac.in.
	Cultivate (4)	1	W-2	4-row cultivator	26		
7/15 - 8/15	Dust 2X - Contract						[illegible] of 5% DDT 50# S
	Irrigate (3)					5 ac.in.	5 ac.in.
	Cultivate (5)	1		4-row cultivator			
	Irrigate (4)					5 ac.in.	5 ac.in.

(Continued on next page.)

Table 5 Continued.

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
8/5 - 8/20	Cultivate & lay by (6)	1	W-2	4-row cultivator	26	.35	.35		
8/15 - 9/5	Irrigate 2X							10 ac.in.	12 ac.in.
	Defoliate - Contract							10# of $NaClO_3$ w/ Borate or Mg.	
	Pick 1st - Machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - Machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pick-up	5-bale tractor, trailer & pickup	6	1.50	1.50		
	Gin - Contract								

*occurs 6X - man-hours and tractor-hours total for season.
Source: Calculated from survey data.

Table 5 Continued.

Dates	Operations	Crew and Equipment				Acres per 9-hour day	Man-hours	Tractor hours	Material	
		Men	Power	Equipment						
1		2	3	4		5	6	7	8	9
8\5 - 8\20 8\15 - 9\5	Cultivate & lay by (6) Irrigate 2X Defoliate - Contract	1	W-2	4-row cultivator			.35	.35	10 ac.in. 10# of NaClO$_3$ w/ Borate or Mg.	12 ac.in.
	Pick 1st - Machine Pick 2nd - Machine Haul to gin	2 2 1	W-2 W-2 [illegible] up	Lemon cotton picker 1-row cotton picker [illegible] tractor, trailer & pickup		1 2 4	1.00 2.00 1.00	1.50 2.25 1.00		
	Gin - Contract									

*occurs 6X - man-hours and tractor-hours total for season.
Source: Calculated from survey data.

TABLE 6

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa Seed, 1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
4/10 - 4/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
5/1 - 5/10	Fertilize - Contract							300# Super phosphate
	Bees - Contract							3 colonies
4/20 - 5/10	Irrigate	1						10 ac.in.
5/10 - 5/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/1 - 6/10	Irrigate	1						10 ac.in.
	Dust 2X - Contract							60# of 5% DDT 75% S
6/10 - 6/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/10 - 6/20	Weed - Contract							
7/1 - 7/10	Irrigate	1						10 ac.in.
7/10 - 7/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
8/15 - 8/25	Defoliate - Contract							1 qt. Sinox in 10 gals.Diesel Oil
8/20 - 8/30	Harvest - Contract							
9/1 - 9/10	Disk	1	W-2	10' offset disk	24	.38	.38	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth	45	.40	.40	

Source: Calculated from survey data.

TABLE 6

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa Seed, 1,000-acre Farm

Date	Operation	Number	Equipment	Hours	Fuel	Lubricant	Other inputs
4/10 - 4/20	Cultivate	1	W-2 4-row cultivator	24	.38	.38	
4/1 - 5/10	Scarifies - Contract						500# super phosphate
	Seed - Contract						5 cultures
4/20 - 5/10	Irrigate	1					10 ac.in.
5/20 - 5/20	Cultivate	1	W-2 4-row cultivator	24	.38	.38	
6/1 - 6/10	Irrigate	1					10 ac.in.
	Dust 2% - Contract						60# of 2% DDT Dust
6/10 - 6/20	Cultivate	1	W-2 4-row cultivator	24	.38	.38	
6/10 - 6/20	Dust - Contract						
7/1 - 7/10	Irrigate	1					10 ac.in.
7/10 - 7/20	Cultivate	1	W-2 4-row cultivator	24	.38	.38	
8/15 - 8/25	Defoliate - Contract						1 qt. Sinox in 10 gals.Diesel Oil
8/20 - 9/10	Harvest - Contract						
9/10 - 9/20	Burn	1					
9/20 - 9/30	Plow						

TABLE 7

Calendar of Operations and Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed, 1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-7D	16' offset disk	40	.44	.44	
	Chisel	1	T-7D	8' chisel	20	.45	.45	
	Disk	1	T-7D	16' offset disk	40	.22	.22	
	Landplane 2X	1	T-7D	10'x60' landplane(rent)	25	.72	.72	
	Furrow out	1	W-2	4-row lister	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.05	.05	
	Preirrigate	1						8 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.05	.05	
	Disk	1	T-7D	16' offset disk	40	.22	.22	
	Harrow	1	T-7D	30' spiketooth harrow	100	.09	.09	
2/1 - 2/20	Plant	2	W-2	4-row lister-planter	29	.62	.31	1½# seed
3/1 - 3/20	Harrow	1	T-7D	30' spiketooth harrow	100	.09	.09	
	Dust - Contract							12.5# 2% Parathion

*occurs 1X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Milo, 1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Furrow out	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						7.8 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	
	Disk & cultipack	1	T-5D	12' offset disk w/14' cultipacker attached	30	.30	.30	
4/20 - 5/1	Plant	2	W-2	4-row lister-planter	29	.62	.31	8# seed
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
5/20 - 6/1	Irrigate	1						6 ac.in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
7/1 - 8/1	Irrigate 2X	1						12 ac.in.
9/1 - on	Harvest - Contract							
	Haul - Contract							

*occurs 3X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 9

Calendar of Operations and Physical Inputs Per Acre for Producing Barley, 1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-7D	16' offset disk	40	.44	.44		
	Landplane 2X - Contract								
	Border up	1	T-5D	Border disk	40	.22	.22		
	Preirrigate	1						6.6 ac.in.	7.6 ac.in.
	Disk & Harrow	1	T-7D	16' offset disk w/20' harrow	38	.24	.24		
11/20 - 1/30	Seed	1	T-5D	14' grain drill	30	.30	.30	80# seed	80# seed
	Irrigate 2X	1						9 ac.in.	10.4ac.in.
6/1 - 7/1	Harvest - Contract								
	Haul - Contract								

Source: Calculated from survey data.

TABLE 5

Calendar of Operations and Physical Inputs for Acre for Producing Barley, 1,000-acre farm

Date	Operations	No.	Equipment	Equipment	Hours per 8-hour day	Man-hours	Irrigation hours	Fertilizer	Seed
	Disk 2X	1	T-7D	16' offset disk	40	.44			
	Lanplane 2X - Contract								
	Harrow up	1	T-5D	8' tandem disk	40	.22	.22		
	Fertilizate	1							
	Disk & Harrow	1	T-7D	16' offset disk w/2C' harrow	35	.24			
11/20 - 1/30	Seed	1	T-5D	14' grain drill	22	.30	.30	80# seed	80# seed
	Irrigate 2X	1							
6/1 - 7/1	Harvest - Contract								
	Haul - Contract								

TABLE 10

Inputs and Costs for Producing Cotton,

1,100-acre Farm

Item	1953				1955			
	Acres: 360 — Yield: 1.9 bales				Acres: 200 — Yield: 2.25 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.19	1,870.00		5.00	5.22	1,045.00
Office		.43	.42	153.00		.43	.43	85.50
Improvements		2.47	2.44	880.29		2.47	2.46	491.93
Power			9.43	3,394.80			11.58	2,316.00
Equipment			15.89	5,720.40			26.96	5,392.00
Irrigation water			14.36	5,169.60			14.08	2,816.00
Labor			23.90	8,604.00			28.08	5,616.50
Soc. Sec. & Comp. Insur.[b]			1.39	499.03			1.63	325.76
Total Fixed			73.02	26,291.12			90.44	18,088.69
VARIABLE:								
Power:								
T-5D tractor	.78 hr.	.80	.62	223.20	.78 hr.	.87	.68	136.00
T-7D tractor	2.14 hr.	.90	1.92	691.20	2.14 hr.	.94	2.01	402.00
W-2 tractor	6.10 hr.	.75	4.55	1,638.00	6.10 hr.	.81	4.92	984.00
Pickup (½-ton)	50 mi.	.03	1.54	544.40	55 mi.	.03	1.69	338.00
Trucks (1½-ton)	20 mi.	.05	1.07	385.20	22 mi.	.05	1.18	236.00
Equipment:								
5' ditcher	.30 hr.	.04	.01	3.60	.30 hr.	.07	.02	4.00
10' scraper	.30 hr.	.14	.04	14.40	.30 hr.	.25	.07	14.00
8' chisel	.45 hr.	.32	.15	54.00	.45 hr.	.47	.21	42.00
16' offset disk	.88 hr.	.35	.31	111.60	.88 hr.	.37	.32	64.00
30' spiketooth harrow	.09 hr.	.07	.01	3.60	.09 hr.	.06	.01	2.00
14' cultipacker	.18 hr.	.59	.11	39.60	.18 hr.	1.25	.22	44.00
4-row lister	.25 hr.	.53	.13	46.80	.25 hr.	.81	.20	40.00
4-row lister planter	.31 hr.	.44	.14	50.40	.31 hr.	.71	.22	44.00
4-row cultivator	2.26 hr.	.47	1.06	381.60	2.26 hr.	.59	1.33	266.00
1-row cotton picker	2.78 hr.	2.91	8.08	2,908.80	2.78 hr.	5.23	14.55	2,910.00
5-bale cotton trailer	1.50 hr.	.09	.13	46.80	1.50 hr.	.16	.24	48.00
2-row stalk cutter	.50 hr.	.09	.05	18.00	.50 hr.	.16	.08	16.00
Equipment (rented):								
10' x 60' landplane	.72 hr.	2.00	1.44	518.40	.72 hr.	2.00	1.44	288.00

(Continued on next page.)

[illegible]

Table 10 continued.

Item	1953 Acres: 360 — Yield: 1.9 bales				1955 Acres: 200 — Yield: 2.25 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Materials:								
Irrigation water	37.2 ac"	.67	24.96	8,985.60	39 ac"	.65	25.43	5,086.00
Seed (acid delint)	18 lb.	.12	2.07	745.20	18 lb.	.12	2.07	414.00
Labor:								
Drivers	12.23 hr.	1.15	14.06	5,061.60	12.38 hr.	1.15	14.24	2,848.00
Irrigators	11.96 hr.	1.00	11.96	4,305.60	12.54 hr.	1.00	12.54	2,508.00
General	3.09 hr.	.90	2.78	1,000.80	3.09 hr.	.90	2.78	556.00
Soc. Sec. & Comp. Insur.[b]			1.67	601.34			1.71	342.90
Contracts:								
Fertilize (NH_3)	135 lb.		13.93	5,014.80	152 lb.		17.21	3,442.00
Hand thin			5.00	1,800.00			5.00	1,000.00
Hand weed			5.00	1,800.00			5.00	1,000.00
Dust 2x (5% DDT-50% S)	60 lb.	.14	8.10	2,916.00	60 lb.	.14	8.10	1,620.00
Defoliate ($NaClO_3$ W/Borate or Mg.)	10 lb.		4.25	1,530.00	10 lb.		4.25	850.00
Gin	1.9 bale	14.70	27.93	10,054.80	2.25 bale	14.70	33.08	6,616.00
Insurance & storage	1.9 bale	1.19	2.26	813.60	2.25 bale	1.19	2.68	536.00
Interest on operating capital[c]			2.93	1,056.35			3.26	652.02
Total Variable			148.26	53,365.29			166.74	33,348.92
Total Cost			221.28	79,656.41			257.18	51,437.61

a/ Rounded.

b/ 5.8 percent x total labor costs.

c/ Total of variable expenses (less ginning costs) ÷ 2 x 5 percent.

Source: Calculated from survey data.

Table 10 continued.

Item	Unit	Price per unit	Total price	Unit	Quantity	Price per unit	Total price
Materials:							
Irrigation water	24.2 ac	ac.	[illegible]				[illegible]
Seed (acid delint)	18 lb.	.12	2.07	7[illegible].20	18	lb.	.22	2.07	42.00
Labor:							
Planter	11.22 hr.								
Irrigators	12.96 hr.	1.00	11.70	4,205.60	12,954	hr.	1.00	12,954	2,[illegible]
General	3.00 hr.	.90	2.70	1,020.80	3,30	hr.	.90	2.76	[illegible]
Gen. Sec. & Comp. Insur.[a]			1.62	601.24				1.41	[illegible]
Contracts:									
Herbicide (HDS)	125 lb.		15.93	5,014.80	152	lb.		12.21	3,[illegible]
Hand thin			2.00	1,800.00				2.00	1,000.00
Hand weed			5.00	1,[illegible].00				5.00	1,000.00
Insect dm (3% DDT-[illegible])	60 lb.	.14	4.10	2,910.00	50	lb.	.14	6.10	[illegible]
Fertilizer (NaCl,Cl2 [illegible] to Mg.)	10 lb.		[illegible]	[illegible]	10	lb.		[illegible]	[illegible]
Gin	1.9 bale	14.70	27.93	10,054.80	2.55	bale	14.70	39.08	[illegible]
Ins. trans. & storage	1.9 bale	1.19	2.26	813.60	2.25	bale	1.10	2.58	[illegible]
Interest on operating capital[c]			2.[illegible]	1,[illegible].26				3.26	[illegible]
Total Variable			142.32	58,365.20				[illegible]	[illegible]
[illegible]			[illegible]	[illegible]				[illegible]	[illegible]

a/ Rounded.

b/ 5.8 percent x total labor costs.

c/ Total of variable expenses (less ginning costs) ÷ 2 x 5 percent.

Source: Calculated from survey data.

TABLE 11

Inputs and Costs for Producing Alfalfa Seed,

1,100-acre Farm

Item	1955 Acres: 150 — Yield: 550 lbs. Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		5.00	5.13	770.00
Office		.43	.42	63.00
Improvements		2.47	2.42	362.47
Power			2.92	438.00
Equipment			2.74	411.00
Irrigation water			12.64	1,896.00
Labor			15.14	2,270.50
Soc. Sec. & Comp. Insur. b/			.88	131.69
1/3 cost to establish stand			9.34	1,401.57
Total Fixed			51.63	7,744.23
VARIABLE:				
Power:				
W-2 tractor	2.30 hr.	.81	1.86	279.00
Pickup (½-ton)	27 mi.	.03	.85	127.50
Truck (1½-ton)	11 mi.	.05	.59	88.50
Equipment:				
10' offset disk	.38 hr.	2.17	.82	123.00
12' springtooth harrow	.40 hr.	.12	.05	7.50
4-row cultivator	1.52 hr.	.59	.90	135.00
Materials:				
Irrigation water	35 ac"	.65	22.82	3,423.00
Labor:				
Driver	3.35 hr.	1.15	3.85	577.50
Irrigator	9.64 hr.	1.00	9.64	1,446.00
Soc. Sec. & Comp. Insur. b/			.78	117.36
Contracts:				
Fertilize (super phosphate)	300 lb.		7.10	1,065.00
Bees (colonies)	3	5.00	15.00	2,250.00
Dust 2x (5% DDT-75% S)	60 lb.		7.95	1,192.50
Weed			15.00	2,250.00
Defoliate (Sinox)	1 qt.		5.40	810.00
Harvest	550 lb.	.03	16.50	2,475.00
Certification fees (sacks, cleaning, inspection)			10.12	1,518.00
Box rental			1.00	150.00
Interest on operating capital c/			3.01	450.87
Total Variable			123.24	18,485.73
Total Cost			174.87	26,229.96

(Continued on next page.)

Item	Quantity per acre 2/	Unit	Cost per unit	Total cost
Dollars				
FIXED:				
Real estate taxes		5.00	5.15	25.75
Office		.41	.42	20.10
Improvements		2.47	2.42	582.47
Power			2.02	438.00
Equipment			2.44	411.00
Irrigation water			17.44	1,880.00
Labor			15.14	2,270.00
Gen. Sec. & Corp. Admin. 3/			.75	131.25
1/3 cost to establish stand			9.24	1,401.57
Total Fixed			51.60	7,144.23
VARIABLE:				
Labor:				
D-7 tractor	2.20 hr.	.81	1.60	270.00
Pickup (½ ton)	2.7 mi.	.05	.05	127.50
Truck (2½ ton)	11 mi.	.05	.59	88.50
Equipment:				
10' offset disk	.30 hr.	2.17	.02	123.00
12' springtooth harrow	.20 hr.	.12	.05	7.00
4-row cultivator	1.52 hr.	.50	.00	137.00
Potentials:				
Irrigation water	35 acr	.65	22.82	3,420.00
Inputs:				
Seed	3.35 lbs.	1.15	3.85	577.50
Inoculator	9.04 lbs.	1.00	9.64	1,446.00
Gen. Sec. & Corp. Admin. 3/			.78	117.26
Contracts:				
Fertilizer (super phosphate)	200 lb.		7.10	1,065.00
Moss (coloring)		5.00	15.00	2,270.00
Dust 2x (9% DDT-75% S)	50 lb.		7.95	1,192.50
Weed			17.00	2,250.00
Defoliate (glean)	1 qt.		5.40	810.00
Harvest	550 lb.	.03	16.50	2,475.00
Certification fee (seed, elements, inspection)			10.12	1,518.00
Box rental			1.00	150.00
Interest on operating capital 2/			3.04	456.27
Total Variable			125.24	18,786.27
Total Cost				

Table 11 continued.

a/ Rounded.

b/ 5.8 percent x total labor costs.

c/ Total of variable expenses ÷ 2 x 5 percent.

Source: Calculated from survey data.

TABLE 12

Inputs and Costs for Establishing an Alfalfa Seed Stand,

1,100-acre Farm

Item	1955 Acres: 150 Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4
		dollars		
Power:				
T-5D tractor	.10 hr.	2.45	.25	37.50
T-7D tractor	2.23 hr.	2.61	5.82	873.00
W-2 tractor	.61 hr.	1.40	.85	127.50
Equipment:				
5' ditcher	.05 hr.	.37	.02	3.00
10' scraper	.05 hr.	1.38	.07	10.50
8' chisel	.45 hr.	1.11	.50	75.00
16' offset disk	.88 hr.	.70	.62	93.00
30' spiketooth harrow	.18 hr.	.33	.06	9.00
4-row lister	.30 hr.	1.55	.46	69.00
4-row lister planter	.31 hr.	1.70	.53	79.50
10' x 60' landplane (rented)	.72 hr.	2.00	1.44	216.00
Materials:				
Irrigation water	8 ac"	1.01	8.08	1,212.00
Seed	1.5 lb.	.40	.60	90.00
Labor:				
Driver	2.94 hr.	1.15	3.38	507.00
Irrigator	2.57 hr.	1.00	2.57	385.50
General	.31 hr.	.90	.28	42.00
Soc. Sec. & Comp. Insur. b/			.36	54.20
Contracts:				
Dust (2% Parathion)	12.5 lb.		2.14	321.00
Total Cost			28.03	4,204.70
Amount Charged Off Annually			9.34	1,401.57

a/ Rounded.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

TABLE II

Labor and costs for overhauling an Atlantic Coast Trawl,

1,000-mile Tow

Item	Labor			Costs	
	Hours	Man-days	Crew-days	Material	Labor
Deckwork					
Tow-2 trawler	.10 hr.	.5	1.45		37.50
1-40 trawler	2.25 hr.	5.25	2.01		375.00
Net-2 trawler	.61 hr.	.75	1.40		127.50
Equipment					
5" ditch r	.05 hr.	.05	.05		3.00
1" scour r	.05 hr.	1.45	.27		10.00
8" cylsel	.45 hr.	1.11	.50		75.00
10" cylsel dtsk	.05 hr.	.10	.05		[illegible]
30" pneumatic barrow	.15 hr.	.25	.05		[illegible]
Hydro lifter	.50 hr.	1.25	.15		60.00
Hydro lifter plunger	.40 hr.	1.20	.25		[illegible]
10" x 50" Landpower (rental)	.75 hr.	2.00	1.41		[illegible]
Investigation costs	3 mo.	1.0.	5.5		1,212.50
Load	1.5 lb.	.05	.50		40.00
Labor					
Driver	2.04 hr.	1.15	4.58		207.00
Investigator	2.47 hr.	1.00	5.07		[illegible]
Supervisor	.37 hr.	.00	.10		45.00
S. c. S.c. & Comp. Insur.[1]			.7.		[illegible]
Contingent					
Misc. (5% Contingent)	15.5 lb.		[illegible]		312.00
Total Cost			29.03		4,002.75
Amount Charged Off Annually			3.54		1,705.27

1/ Remarks.

2/ 5.5 percent of total labor cost.

TABLE 13

Inputs and Costs for Producing Milo,

1,100-acre Farm

Item	1953 Acres: 40 — Yield: 40 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		5.00	5.50	220.00
Office		.43	.45	18.00
Improvements		2.47	2.59	103.56
Power			3.42	136.80
Equipment			1.84	73.60
Irrigation water			9.96	398.40
Labor			11.95	478.00
Soc. Sec. & Comp. Insur.[b]			.69	27.72
Total Fixed			36.40	1,456.08
VARIABLE:				
Power:				
T-5D tractor	1.12 hr.	.80	.89	35.60
W-2 tractor	1.42 hr.	.75	1.06	42.40
Pickup (½ ton)	25 mi.	.03	.77	30.80
Trucks (1½ ton)	10 mi.	.05	.54	21.60
Equipment:				
5' ditcher	.15 hr.	.04		
10' scraper	.15 hr.	.14		
12' offset disk	.82 hr.	1.15	.94	37.60
14' cultipacker	.30 hr.	.59	.18	7.20
4-row lister	.25 hr.	.53	.13	5.20
4-row lister planter	.31 hr.	.44	.14	5.60
4-row cultivator	.86 hr.	.47	.41	16.40
Materials:				
Irrigation water	25.8 ac"	.67	17.31	692.40
Seed	8 lb.	.08	.64	25.60
Labor:				
Driver	3.49 hr.	1.15	4.01	160.40
Irrigator	8.29 hr.	1.00	8.29	331.60
General	.31 hr.	.90	.28	11.20
Soc. Sec. & Comp. Insur.[b]			.73	29.19
Contracts:				
Harvest			6.00	240.00
Haul	40 cwt.	.10	4.00	160.00
Insurance ($1.50 per $100.00 of value)			1.65	66.00
Interest on operating capital[c]			1.20	47.97
Total Variable			49.17	1,966.76
Total Cost			85.57	3,422.84

(Continued on next page.)

Inputs and Costs for Producing $82/a.

1,100-acre Farm

Item	Inputs used per acre[2/]	Unit costs[3/]	Costs per acre	Total costs
	1973			
	Farmer 40 -- Landlord 60 cent.			
	Collapse			
Dr:				
Rent estate house		5.00	5.50	220.00
Office		.43	.45	18.00
Improvements		2.47	2.60	103.60
Power			3.42	136.80
Equipment			4.04	73.00
Irrigation water			6.36	398.40
Labor			11.50	472.00
Sec. Sec. & Comp. Insur.[4/]			.22	24.42
Total Final			26.40	1,450.02
Variable:				
Power:				
T-20 tractor	1.22 hr.	.80	.80	32.00
W-2 tractor	1.42 hr.	.75	1.06	42.40
Pickup (½ ton)	25 mi.	.07	.27	30.40
Trucks (1½ ton)	10 mi.	.05	.04	21.60
Implements:				
5' discer	.15 hr.	.04		
10' scraper	.15 hr.	.14		
12' offset disk	.42 hr.	1.45	.9	37.60
14' cultipacker	.30 hr.	.40	.18	7.20
4-row lister	.25 hr.	.53	.13	5.20
4-row lister planter	.21 hr.	.44	.14	5.60
4-row cultivator	.86 hr.	.47	.41	16.40
Miscellaneous:				
Irrigation water	25.9 acre	.07	1.37	492.40
Seed	8 lb.	.08	.64	25.60
Labor:				
Driver	2.49 hr.	1.15	4.01	140.40
Irrigator	8.29 hr.	1.00	8.29	331.60
Owner	.31 hr.	.90	.28	11.20
Soc. Sec. & Comp. Insur.[4/]			.73	29.12
Contracts:				
Harvest			6.00	240.00
Haul	40 cwt.	.12	4.80	192.00
Insurance ($1.50 per $100.00 of value)			1.65	66.00
Interest on operating capital[5/]			1.30	47.27
Total Variable			40.11	1,655.76
Total Cost			66.51	2,422.24

(Continued on next page.)

Table 13 continued.

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses ÷ 2 x 5 percent.

TABLE 14

Inputs and Costs for Producing Barley,
1,100-acre Farm

Item	1953 Acres: 450 — Yield: 28 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	1955 Acres: 550 — Yield: 30 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.26	2,365.00		5.00	5.30	2,915.00
Office		.43	.43	193.50		.43	.43	238.50
Improvements		2.47	2.47	1,113.31		2.47	2.50	1,372.22
Power			3.03	1,363.50			3.51	1,930.50
Equipment			.82	369.00			.72	396.00
Irrigation water			6.02	2,709.00			6.50	3,575.00
Labor			6.11	2,748.50			7.17	3,943.50
Soc. Sec. & Comp. Insur.[b]			.35	159.41			.42	228.72
Total Fixed			24.49	11,021.22			26.55	14,599.44
VARIABLE:								
Power:								
T-5D tractor	.52 hr.	.80	.41	184.50	.52 hr.	.87	.45	247.50
T-7D tractor	.68 hr.	.90	.61	274.50	.68 hr.	.94	.64	352.00
Pickups (½ ton)	25 mi.	.03	.77	346.50	27 mi.	.03	.85	467.50
Trucks (1½ ton)	10 mi.	.05	.54	243.00	11 mi.	.05	.59	324.50
Equipment:								
16' offset disk	.68 hr.	.35	.24	108.00	.68 hr.	.37	.25	137.50
Border disk	.22 hr.	.18	.04	18.00	.22 hr.	.15	.03	16.50
20' spiketooth harrow	.24 hr.	.05	.01	4.50	.24 hr.	.04	.01	5.50
14' grain drill	.30 hr.	.13	.04	18.00	.30 hr.	.10	.03	16.50
Materials:								
Irrigation water	15.6 acr	.67	10.47	4,711.50	18 acr	.65	11.74	6,457.00
Seed	80 lb.	.04	3.20	1,440.00	80 lb.	.04	3.20	1,760.00
Labor:								
Drivers	2.15 hr.	1.15	2.47	1,111.50	2.25 hr.	1.15	2.59	1,424.50
Irrigators	5.01 hr.	1.00	5.01	2,254.50	5.01 hr.	1.00	5.01	2,755.50
Soc. Sec. & Comp. Insur.[b]			.43	195.23			.44	242.44
Contracts:								
Landplane 2X			8.00	3,600.00			8.00	4,400.00
Harvest			5.00	2,250.00			5.00	2,750.00
Haul	28 cwt.	.10	2.80	1,260.00	30 cwt	.10	3.00	1,650.00
Insurance ($1.50 per $100 of value)			1.13	508.50			.97	533.50
Interest on operating capital[c]			1.03	463.21			1.07	588.51
Total Variable			42.20	18,991.44			43.87	24,128.95
Total Cost			66.69	30,012.66			70.42	38,728.39

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses ÷ 2.5 percent.

TABLE 14

Inputs and Costs for producing sunflower,

1,100-acre Farm

Item	1963					1964	
	Crop: 450 acres; Yield: 25 cwt.			Acres: 550 -- Yield: 30 cwt.			
	Units used per farm	Unit cost	Cost per farm	Units used per farm	Unit cost	Cost per farm	Total cost
	1	2	3	4	5	6	7	8
	dollars					dollars	
FIXED:							
Real estate taxes		5.00	5.26	2,365.00		5.00	5,475.00
Office		.43	.43	193.50		.43	236.50
[illegible]							
Power			3.03	1,363.50			3.32	1,825.60
Equipment			.82	369.00			.72	396.00
Irrigation water			5.02	2,259.00			5.50	4,675.00
Labor			6.11	2,749.50			7.17	3,943.50
Sec. Inc. & Comp. Insur.[b]			.35	159.01			.42	228.72
Total Fixed			24.49	11,021.22			26.60	14,630.44
[illegible]								
T-20 tractor	.32 hr.	.80	.41	184.50	.32 hr.	.87	.45	247.50
A-70 tractor	.68 hr.	.90	.61	274.50	.68 hr.	.94	.64	352.00
Disque (½ ton)	.25 mi.	.32	.77	346.50	.27 mi.	.03	.03	407.50
Trucks (½ ton)	.10 mi.	.32	.54	243.00	.11 mi.	.05	.06	324.50
Implements:								
16' cultivat stick	.06 hr.	.35	.26	108.00	.08 hr.	.37	.25	137.50
Corder disk	.22 hr.	.18	.04	18.00	.24 hr.	.15	.02	16.50
20' spike tooth harrow	.04 hr.	.20	.01	4.50	.04 hr.	.04	.01	5.50
14' grain drill	.30 hr.	.15	.04	18.00	.30 hr.	.10	.03	16.50
[illegible]								
Irrigation water	15.6 acre	.67	10.47	4,711.50	15 acre	.75	11.24	6,182.00
Seed	80 lb.	.04	3.20	1,440.00	80 lb.	.04	3.20	1,760.00
Labor:								
Drivers	2.15 hr.	1.15	2.47	1,111.50	2.25 hr.	1.15	2.59	1,424.50
Irrigation	5.01 hr.	1.00	5.01	2,254.50	5.01 hr.	1.00	5.01	2,755.50
Sec. Inc. & Comp. Insur.[b]			.43	193.21			.44	242.46
Contracts:								
Combining, 3X			8.00	3,600.00			8.00	4,400.00
Harvest			5.00	2,250.00			5.00	2,750.00
Seed	20 cwt.	.10	2.00	1,200.00	30 cwt.	.10	3.00	1,650.00
Insurance (1.50 per $100 of value)			1.12	504.50			.97	534.80
Interest on operating capital[c]			1.04	468.21			1.07	588.51
Total Variable			42.20	18,981.44			48.97	24,126.85
Total Cost			66.69	30,012.66			70.42	38,757.29

[a] Remarks:

[b] 5.0 percent of total labor cost.

[c] Total variable expenses ÷ 4.5 percent.

TABLE 15

Inputs and Costs for Fallow Land,

1,100-acre Farm

Item	1953 Acres: 200 Units used per acre[a]	1953 Unit cost[a]	1953 Cost per acre	1953 Total cost	1955 Acres: 150 Units used per acre[a]	1955 Unit cost[a]	1955 Cost per acre	1955 Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.22	1,045.00		5.00	5.13	770.00
Office		.43	.43	85.50		.43	.42	63.00
Improvements		2.47	2.46	491.93		2.47	2.42	362.47
Power			1.16	232.00			1.47	220.50
Equipment			1.75	350.00			2.56	384.00
Labor			.60	119.50			.80	119.50
Soc. Sec. & Comp. Insur.[b]			.03	6.93			.05	6.93
Total Fixed			11.65	2,330.86			12.85	1,926.40
VARIABLE:								
Power:								
T-5D tractor	.93 hr.	.80	.74	148.00	.93 hr.	.87	.81	121.50
Equipment:								
6-blade disk-plow	.41 hr.	3.20	1.31	262.00	.41 hr.	4.27	1.75	262.50
12' offset disk	.52 hr.	1.15	.60	120.00	.52 hr.	2.02	1.05	157.50
Labor:								
Driver	.93 hr.	1.15	1.07	214.00	.93 hr.	1.15	1.07	160.50
Soc. Sec. & Comp. Insur.[b]			.06	12.41			.06	9.31
Contracts:								
Interest on operating capital[c]			.09	18.91			.12	17.78
Total Variable			3.87	775.32			4.86	729.09
Total Cost			15.52	3,106.18			17.71	2,655.49

a/ Rounded.

b/ 5.8 percent x total labor.

c/ Total of variable expenses (less Operator's) ÷ 2 x 5 percent.

Inputs and Costs for Maize Land.

Item	1963					1965			
	Acres: 200					Acres: 140			
	Units used per acre[1]	Unit cost[2]	Cost per acre	Total Units used per farm[3]	Total cost	Units used per acre[1]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
Inputs								
Local cultivar Zamse		5.00	5.22		1,044.00	5.20	5.13	718.00
Ostrich		.43	.43		87.50	.38	.42	63.00
Improvements		2.17	2.16		431.93	2.47	2.42	338.47
Power			1.15		232.00		1.47	220.50
Equipment			1.75		350.00		2.56	384.00
Labor			.00		175.50		.50	112.00
Gen. Adm. & Comp. Insur.[4]			.23		6.93		.25	.25
Total Fixed			11.46		2,330.36		12.45	1,925.00
VARIABLE:								
Seed:								
T-53 Pioneer	.01 bu.	.00	.74		148.00	.99 bu.	.81	141.00
Fertilizer:								
Complete Black-alow	.41 bu.	3.45	1.31		262.00	.41 bu.	1.27	182.00
14% cotton dish	.52 bu.	1.15	.60		120.00	.72 bu.	1.05	151.00
Driver	.02 bu.	1.15	1.07		214.00	.03 bu.	1.07	16 and
Gen. Adm. & Comp. Insur.[4]			.06		12.11		.06	5.71
Contractor:								
Interest on operating capital[5]			.09		18.11		.12	17.16
Total Variable			3.47		777.32		4.40	[illegible]

[1] 1.6 pounds = bushel.

[2] Total of variable expenses (Lab. Contractor's) ÷ 2 x 5 percent.

TABLE 16

Physical Resources and Investments for Typical 2,800-acre Farms, 1955 Prices

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
	1	2	3	4	5	6
			dollars			
Land:						
Total	2,800 acres					
Total cultivated	2,700 acres					
Improvements:						
Tenant house	2-bedroom	2	3,500.00	7,000.00	1,750.00	3,500.00
Labor cabins		15	500.00	7,500.00	250.00	3,750.00
Shop, storage b/				6,500.00		3,250.00
Tractor, equipment shed				2,500.00		1,250.00
Grain storage	2,500 tons			25,000.00		12,500.00
Fuel storage - gas	1,000 gallons	1		330.00		165.00
Fuel storage - diesel	10,000 gallon	1		1,300.00		650.00
Subtotal				50,130.00		25,065.00
Irrigation system						
Pumping plant	250 h.p.; 1,200 g.p.m.	5	21,500.00	107,500.00	11,018.75	55,093.75
Well, casing	16" diameter; 450' lift	5x1,700'	10.00	85,000.00	5.00	42,500.00
Pipe	16"	10,560'	1.00	10,560.00	.50	5,280.00
Stands	8' - 36"	5	72.00	360.00	36.00	180.00
Vents	6' - 8"	6	5.60	33.60	2.80	16.80
Line gates	16"	10	186.60	1,866.00	93.30	933.00
Siphons	1" - 3"	1,000	1.50	1,500.00	.75	750.00
Subtotal				206,819.60		104,753.55
Power:						
Tracklayer	T-5D (35-45 h.p.)	1		7,000.00		3,850.00
Tracklayer	T-7D (60-70 h.p.)	3	11,225.00	33,675.00	6,173.75	18,521.25
Tracklayer	T-9D (80-90 h.p.)	1		15,500.00		8,525.00
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	4	3,000.00	12,000.00	2,100.00	8,400.00
Pickup	1/2-ton	3	2,000.00	6,000.00	1,200.00	3,600.00
Truck	1 1/2-ton	2	2,800.00	5,600.00	1,470.00	2,940.00
Truck	2-ton	1		3,800.00		1,995.00
Subtotal				88,775.00		51,471.25

(Continued on next page.)

TABLE 16

Physical Resources and Investments For Typical 6,000 Ton Team

[illegible]							
[illegible]							
Total unclassified							
[illegible]							
[illegible]	[illegible]	3	[illegible]		[illegible]	[illegible]	3,600.0
[illegible]		15	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]							
[illegible]							
[illegible]							1,200.0
[illegible]	2,[illegible]			20,000.00			12,[illegible]
[illegible]							
[illegible]	1,000 [illegible]	1		300.			
[illegible]							
[illegible]		1		[illegible]			
[illegible]							
[illegible]							
[illegible]		5	11,000.00	107,[illegible]	[illegible]	[illegible]	
[illegible]							
[illegible]	[illegible]		10.00	55,000.00		.00	[illegible]
[illegible]	10,500'		1.00	10,500.00		50	[illegible]
[illegible]	[illegible] - 35"	5		75.00		30.00	[illegible]
[illegible]	[illegible] - 5"	6		5.00		2.00	[illegible]
[illegible]	10"	10		1.00		45.30	[illegible]
[illegible]	1" - 3"	1,000		1.50		.75	[illegible]
Subtotal				[illegible]			[illegible]
[illegible]							
[illegible]							
[illegible]	(75-90 h.p.)	1		7,500.00			2,[illegible]
[illegible]	75-90						
[illegible]	(60-75 h.p.)	3	11,000.00	[illegible]		3,170.75	18,[illegible]
[illegible]	75-90						
[illegible]	(40-55 h.p.)	1		15,[illegible]			[illegible]
[illegible]							
[illegible]	(20-25 h.p.)	2	2,000.0	2,[illegible]		1,[illegible]	[illegible]
Steel Scooter	4-5						
[illegible]	(20-25 h.p.)	4	2,000.00	10,000.00		[illegible]	[illegible]
[illegible]	1,[illegible]-ton	3	2,000.00	[illegible]		1,000.00	[illegible]
[illegible]	1 1/2-ton	2	2,000.00	[illegible]		1,000.00	[illegible]
[illegible]	2-ton	1		[illegible]			
[illegible]				[illegible]			

(Continued on next page.)

Table 16 Continued.

Item	Size or capacity	Amount	New cost per unit	New cost total	Average investment a/ per unit	Average investment a/ total
	1	2	3	4	5	6
			dollars			
Equipment:						
Ditcher c/	4'	1		135.00		67.50
Ditcher	5'	2	140.00	280.00	70.00	140.00
Scraper	8'	1		485.00		242.50
Carryall c/	8 yards	1		6,400.00		3,200.00
Landplane	10' x 60'	1		2,700.00		1,350.00
Disk - plow	6-blade	4	1,750.00	7,000.00	875.00	3,500.00
Chisel	10'	1		600.00		300.00
Disk, offset c/	8'	2	725.00	1,450.00	362.50	725.00
Disk, offset	18'	2	1,570.00	3,140.00	785.00	1,570.00
Disk, offset	24'	1		2,100.00		1,050.00
Border disk		1		175.00		87.50
Spiketooth harrow	5' sections	10	50.00	500.00	25.00	250.00
Springtooth harrow c/	4' sections	6	80.00	480.00	40.00	240.00
Cultipacker	12'	3	380.00	1,140.00	190.00	570.00
Drag or float c/	12' x 20'	1		150.00		75.00
Lister	4-row	1		350.00		175.00
Planter	4-row	3	500.00	1,500.00	250.00	750.00
Cultivator	4-row	5	1,000.00	5,000.00	500.00	2,500.00
Fertilizer attachment c/	4-row	2	150.00	300.00	75.00	150.00
Fertilizer spreader c/		2	335.00	670.00	167.50	335.00
Cotton picker	1-row	3	8,700.00	26,100.00	5,220.00	15,660.00
Cotton trailer c/	4-bale	5	350.00	1,750.00	192.50	962.50
Cotton trailer c/	5-bale	5	400.00	2,000.00	220.00	1,100.00
Cotton trailer	6-bale	5	450.00	2,250.00	247.50	1,237.50
Stalk cutter	2-row	2	325.00	650.00	162.50	325.00
Grain drill	12'	2	700.00	1,400.00	350.00	700.00
Harvester (combine) SP	16'	2	7,200.00	14,400.00	2,400.00	4,800.00
Grain elevator c/		1		350.00		175.00
Grain unloader c/		1		350.00		175.00
Subtotal				83,805.00		42,412.50
Total				429,529.60		223,702.30

a/ $\frac{\text{Original cost + Salvage value}}{2}$ Salvage values listed in Table 20.

b/ Includes $3,000 worth of tools, equipment, and parts.

c/ Standby equipment owned but not used in 1953 or 1955.

Table 1. Continued.

Item	Size	Number	Use cost			
Equipment:						
Jointer a/	4'	1		125.00		67.00
Jointer	8'	2	1,000.00			
Sprayer	8'	1		495.00		242.50
Carryall a/	8 yards	1				1,000.00
Land plane	10' x 60'	1				1,300.00
Disk - plow	6-blade	1				1,500.00
Chisel	10'	1				
Disk, offset a/	8'	2				275.00
Disk, offset	18'	2		1,140.00	785.00	1,370.00
Disk, offset	24'	1				1,000.00
Border disk		1				
Spring-tooth harrow	5' sections	10	50.00	700.00		250.00
Spring-tooth						
Harrow a/	4' sections	6				
Cultipacker	12'	3				
Drag or float a/	12' x 20'	1				
Lister	4-row	1				
Planter	4-row	3		1,600.00		
Cultivator	4-row	5		5,000.00		
Fertilizer						
Attachment a/	4-row					150.00
Fertilizer						
Spreader a/		2				
Cotton picker	1-row	2				13,000.00
Cotton trailer a/	4-bale	2				
Cotton trailer	4-bale	4		1,000.00		
Cotton trailer	6-bale	2		2,200.00		1,225.50
Grain cutter	2-row	2		550.00		
Grain drill	12'	2	700.00	1,400.00		700.00
Harvester						
(combine) SP	10'	2				
Grain elevator a/		1				
Grain unloader a/		1				
Subtotal						

a/ Original cost + Salvage value

Salvage values listed in Table 2a.

Includes $3,000 worth of tools, equipment, and parts.

Steady equipment owned but not used in 1983 or 1985.

TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton, 2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-2	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	T-9D	24' offset disk	60	.30	.30		
	Chisel	1	T-7D	10' chisel	24	.38	.38		
	Disk	1	T-9D	24' offset disk	60	.15	.15		
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72		
	Furrow cut	1	W-2	4-row lister	36	.25	.25		
	Make head ditches*	1	T-7D	double-wing ditcher		.30	.30		
	Preirrigate	1						7.2 ac.in.	7 ac.in.
	Fill in ditches*	1	T-5D	8' scraper		.30	.30		
	Disk	1	T-9D	18' offset disk	55	.16	.16		
	Harrow	1	T-7D	30' harrow	100	.09	.09		
4/1 - 4/15	Plant	2	W-2	4-row planter	29	.62	.31	18# acid delint	
	Cultipack	1	T-5D	12' cultipacker	46	.20	.20		
5/1 - 5/15	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-2	4-row cultivator	22	.41	.41		
	Fertilize - Contract							136# NH_3	156# NH_3
	Irrigate (1)	1						5 ac.in.	5 ac.in.
	Hand weed - Contract								
	Cultivate (3)	1	W-2	4-row cultivator	22	.41	.41		
	Irrigate (2)	1						5 ac.in.	5 ac.in.
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
6/15 - 8/15	Dust 2X - Contract							60# of 5% DDT	50% S
	Irrigate (3)	1						5 ac.in.	5 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (4)	1						5 ac.in.	5 ac.in.

(Continued on next page.)

TABLE 17

Calendar of Operations and Physical Inputs per Acre for Producing Cotton, 2,800-acre F

	1	2	3	4	5	6	7	8
	Cut stalks	1	W-2	2-row trash cutter	10	.30	.30	
	Disk 2X	1	T-9D	24' offset disk	60	.30	.30	
	Chisel	1	T-7D	10' chisel	24	.38	.36	
	Disk	1	T-9D	24' offset disk	60	.15	.15	
	Landplane 2X	1	T-7D	10'x30' landplane	20	.72	.72	
	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Make bed ditches*	1	T-7D	double-wing ditcher		.30	.30	
	Irrigate	1						7.2 ac.in. 7 ac.in.
	Fill in ditches*	1	T-3D	8' scraper		.30	.30	
	Disk	1	T-9D	18' offset disk	55	.16	.16	
	Harrow	1	T-7D	30' harrow	100	.09	.09	
	Plant	2	W-2	4-row planter	20	.52	.31	15# acid delint
	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
5/1 - 5/15	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45	
	Hand thin - Contract							
	Cultivate (2)	1	T-2	4-row cultivator	22	.41	.41	
	Fertilize - Contract							120# UH_3 100# MH_3
	Irrigate (1)	1						5 ac.in. 5 ac.in.
	Hand weed - Contract							
	Cultivate (3)	1	T-2	4-row cultivator	22	.41	.41	
	Irrigate (2)	1						5 ac.in. 5 ac.in.
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35	
5/15 - 6/15	Dust 2X - Contract							60# of 5% DDT 300# S
	Irrigate (3)	1						5 ac.in. 5 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35	
	Irrigate (4)	1						5 ac.in. 5 ac.in.

(Continued on next page.)

Table 17 Continued.

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
8/5 - 8/20	Cultivate & lay by (6)	1	W-2	4-row cultivator	26	.35	.35		
8/15 - 9/5	Irrigate 2X	1						10 ac.in	12 ac.in.
	Defoliate - Contract							10# of $NaClO_3$ w/ Borate or Mg.	
	Pick 1st - Machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - Machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1		6-bale trailer & pickup	6	1.50	1.50		
	Gin - Contract								

*occurs 6X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

Table 1 (continued)

Date	Operation	Equipment	Acres	Rate	Material	
8/25 - 9/20	Cultivate 6 day by (x)	1 R-2	26	.35	.35	
8/15 - 9/5	Treated 2X	1				10 oz.in 12 oz.in.
	Defoliate - Contract					10% of $NaClO_3$ w/
						Borax or Mg.
	Plow (1X - Moldboard	1 R-2	1	3.00	3.00	
	Plow (2X - Moldboard	1 R-2	1	2.25	2.25	
	Disc (2X - Disc	1	1	1.50	1.50	
	Chop (2X - Chopper	1	1	1.50	1.50	

*Costs 6X - man-hours and tractor-hours are total for season.
Source: Extension Irrigation Agent.

TABLE 18

Calendar of Operations and Physical Inputs Per Acre for Producing Barley, 2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man-hours	Tractor hours	Material 1953	Material 1955
	1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-9D	18' offset disk	55	.32	.32		
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72		
	Border up	1	T-5D	Border disk	40	.22	.22		
	Preirrigate	1						6.6 ac.in.	7.6 ac.in.
	Disk & Harrow	1	T-9D	18' offset disk w/20' spiketooth harrow	50	.18	.18		
11/20 - 1/30	Seed	1	T-5D	2/12' grain drills	55	.16	.16	80# seed	80# seed
	Irrigate 2X	1						9 ac.in.	10.4 ac.in.
6/1 - 7/1	Harvest	2		16' harvester - SP	25	.72	.36		
	Haul	1		1½-ton truck	25	.36	.36		

Source: Calculated from survey data.

TABLE II

Calendar of observations and Harvard indices per year for Arequipa Series*

TABLE 19

Calendar of Operations and Physical Inputs Per Acre for Producing Melons, 2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-9D	24' offset disk	60	.30	.30	
	Chisel	1	T-7D	10' chisel	24	.38	.38	
	Disk	1	T-9D	18' offset disk	55	.16	.16	
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72	
	Furrow out	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' double-wing ditcher		.15	.15	
	Preirrigate	1						6.2 ac. in.
	Fill in ditches*	1	T-5D	8' scraper		.15	.15	
	Disk	1	T-9D	18' offset disk	55	.16	.16	
	Harrow	1	T-7D	30' harrow	90	.10	.10	
3/15 - 4/20	Plant	2	W-2	4-row planter (only plant 2 rows)	29	.62	.31	3# seed
	Fertilize - Contract							119# NH_3
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
	Irrigate	1						5.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
	Irrigate 3X	1						16.5 ac. in.
	Dust 4X - Contract							3 app. 90# of 5% DDT & 1 app. 40# of 1% TEPP
	Chop, Weed, turn Vines 2X-Contract							
7/15 - 9/1	Harvest - Contract							
	Pack - Contract							

*occurs 3X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 20

Calendar of Operations and Physical Inputs Per Acre for Producing Sugar Beets, 2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-9D	18' offset disk	55	.32	.32	
	Chisel	1	T-7D	10' chisel	24	.38	.38	
	Disk 2X & harrow	1	T-9D	18' offset disk w/20' spiketooth	50	.36	.36	
	Landplane	1	T-7D	10'x60' landplane	25	.36	.36	
	Bed up	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-7D	Double-wing ditcher		.30	.30	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	T-5D	8' scraper		.30	.30	
1/20 - 2/20	Plant	1	W-2	4-row planter	29	.31	.31	8# seed
	Cultipack	1	W-2	12' cultipacker	44	.20	.20	
	Irrigate	1						4.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
	Thin - Contract							
	Irrigate	1						4.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
	Fertilize - Contract							119# NH_3
	Irrigate	1						4.5 ac. in.
	Weed - Contract							
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
	Irrigate 2X	1						9 ac. in.
	Cultivate	1	W-2	4-row cultivator	26	.35	.35	
	Irrigate 3X	1						13.5 ac. in.
	Plow in ditches	1	T-5D	8' scraper		.05	.05	
8/1 - 9/1	Harvest - Contract							
8/1 - 9/1	Haul - Contract							

*occurs 6X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 20

Calendar of Operations and Physical Inputs Per Acre for Producing Sugar Beets, 2,800-acre Farm

Calendar	Operations	Man	Power	Equipment	Man-hours per day	Man-hours per acre	Inputs	
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-6D	18' offset disk				
	Chisel	1	T-7D	10' chisel				
	Disk 2X & harrow	1	T-9D	18' offset disk w/22' harrow				
	Landplane	1	T-7D	10'x50' landplane	25	.36	.06	
	Bed up	1	W-2	4-row lister	36	.25	.25	
	Man-load fertilizer*		T-7D	Manure spreader				
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	T-6D	8' scraper		.30	.60	
1/20 - 2/20	Plant	1	W-2	4-row planter	29	.31	.31	8# seed
	Cultipack	1	W-2	12' cultipacker	44	.20	.20	
	Irrigate	1						4.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
	Thin - Contract							
	Irrigate	1						
	Cultivate	1	W-2	4-row cultivator	22			
	Fertilize - Contract							
	Irrigate	1						4.5 ac. in.
	Weed - Contract							
	Cultivate	1	W-2	4-row cultivator	20	.45		
	Irrigate 2X	1						9 ac. in.
	Cultivate	1	W-2	4-row cultivator				
	Irrigate 2X	1						13.5 ac. in.
	Plow in ditches	1	T-6D	8' scraper				
8/1 - 9/1	Harvest - Contract							
8/1 - 9/1	Haul - Contract							

*Operations (X - man-hours and tractor-hours are total for season.
Source: Calculated from survey data.

TABLE 21

Inputs and Costs for Producing Cotton,

2,800-1 Farm

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.25	4,200.00			5.09	2,240.00
Office		.28	.28	225.00			.27	120.00
Improvements		1.73	1.75	1,398.38			1.70	745.80
Power			8.77	7,016.00			11.48	5,051.20
Equipment			12.48	9,984.00			22.24	9,785.60
Irrigation water			20.24	16,192.00			23.13	10,177.20
Labor			17.38	13,903.50			22.90	10,075.00
Soc. Sec. & Comp.	Insur.[b]		1.01	806.40			1.33	584.35
Total Fixed			67.16	53,725.28			88.14	38,779.15
VARIABLE:								
Power:								
T-5D tractor	.50 hr.	.70	.35	280.00	.50 hr.	.70	.35	154.00
T-7D tractor	1.49 hr.	.99	1.47	1,176.00	1.49 hr.	1.04	1.54	677.60
T-9D tractor	.61 hr.	1.02	.62	496.00	.61 hr.	1.04	.63	277.20
W-2 tractor	6.16 hr.	.73	4.52	3,616.00	6.16 hr.	.84	5.20	2,288.00
Pickups	32 mi.	.03	1.01	808.00	37 mi.	.03	1.18	519.20
Trucks 1½ ton	8 mi.	.05	.45	360.00	10 mi.	.05	.53	233.20
Trucks 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.28	123.20
Equipment:								
5' ditcher	.30 hr.	.04	.01	8.00	.30 hr.	.06	.02	8.80
8' scraper	.30 hr.	.06	.02	16.00	.30 hr.	.11	.03	13.20
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.20	.07	56.00	.38 hr.	.36	.14	61.60
18' offset disk	.16 hr.	.47	.07	56.00	.16 hr.	.42	.07	30.80
24' offset disk	.45 hr.	.88	.39	312.00	.45 hr.	1.59	.72	316.80
30' spiketooth harrow	.09 hr.	.05		3.89	.09 hr.	.05		2.10
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	1.30	.26	114.40
4-row lister	.25 hr.	.26	.07	56.00	.25 hr.	.48	.12	52.80
4-row planter	.31 hr.	.12	.04	32.00	.31 hr.	.22	.07	30.80
4-row cultivator	2.32 hr.	.54	1.25	1,000.00	2.32 hr.	.98	2.27	998.80
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.57	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)

Inputs and Costs for Producing Cotton.

Item																		
Land																		
Real estate taxes							5.00		6.25		4,200.00						5.00	5,[illegible]
Improvements							1.75		1.75		1,[illegible]						1.70	[illegible]
[illegible]																		[illegible]
[illegible]																		[illegible]
Irrigation water									[illegible]		16,[illegible]						[illegible]	[illegible]
Labor									17.00		12,[illegible]						24.00	10,[illegible]
Ice, box, & dump.								[illegible]	1.01		[illegible]						[illegible]	[illegible]
Total Fixed									67.16		5[illegible]						80.1[illegible]	35,[illegible]
Variable:																		
Equipment																		
T-20 tractor	.50	hr.		.70		.35					200.00	.30	hr.	.70		.4[illegible]		1[illegible]
T-30 tractor	1.30	hr.		.30		1.47					1,1[illegible]	1.00	hr.	1.05		1.[illegible]		[illegible]
G-60 tractor	.01	hr.		1.02		.42					[illegible]	[illegible]		[illegible]		.05		[illegible]
W-2 tractor	[illegible]	hr.		.73		4.52					3,[illegible]	6.10	hr.	.14		5.20		2,[illegible]
Pickings	75	wk.		.02		1.01					808.00	.07	wk.	.00		1.[illegible]		[illegible]
Trucks 1½ ton	8	mi.		.05		.05					[illegible]	1.0	mi.	.05		.04		[illegible]
Trucks 2 ton	4	mi.		.07		.24					192.00	[illegible]	mi.	.04		.09		[illegible]
Implements																		
5' disk harrow	.30	hr.		.04		.01					6.00	.20	hr.	.08		.02		5.00
8' harrow	.40	hr.		.06		.02					10.[illegible]	[illegible]	hr.	.10		.06		[illegible]
10' x 60'	.72	hr.		.05		.07					55.00	.12	hr.	.40		.07		[illegible]
Implements																		
10' chisel	.38	hr.		.20		.07					56.00	.15	hr.	.70		.14		[illegible]
10' cultivator	.10	hr.		.07		.07					[illegible]	.10	hr.	.02		.07		[illegible]
2½' cotton disk	.35	hr.		.08		.30					312.00	.05	hr.	1.90		[illegible]		[illegible]
30' spinner-row	.08	hr.		.05							3.80	.02	hr.	.05				2.10
Harrow																		
12' cultivator	.20	hr.		.71		.14					112.00	.10	hr.	1.70		.24		11[illegible]
4-row lister	.25	hr.		.70		.07					56.00	.20	hr.	.48		.12		[illegible]
4-row planter	.31	hr.		.12		.01					32.00	.01	hr.	.22		.07		[illegible]
4-row cultivator	2.32	hr.		.34		1.45					1,000.20	2.[illegible]	hr.	.56		2.27		[illegible]
[illegible]																		
Labor																		
4-bale cotton picker	1.50	hr.		.06		.08					[illegible]	1.00	hr.	.10		.15		[illegible]
Stripper																		
Stalk cutter	.50	hr.		.08		.04					[illegible]	.50	hr.	.15		.07		[illegible]

(Continued on next page.)

Table 21 continued.

Item	1953 Acres: 800 — Yield: 1.6 bales				1955 Acres: 440 — Yield: 2.0 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Materials:								
Irrigation water	37.2 ac"	1.25	46.54	37,232.00	39.0 ac"	1.30	50.54	22,237.60
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
Labor:								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.48 hr.	1.15	13.20	5,808.00
Irrigator	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Insur.[b]			1.40	1,121.02			1.44	631.88
Contracts:								
Fertilize (NH_3)	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2x (5% DDT-50% S)	60 lb.	.14	8.10	6,480.00	60 lb.	.14	8.10	3,564.00
Defoliate (NaC/O_3 W/Borate or Mg.)	10 lb.		4.25	3,400.00	10 lb.		4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insurance & storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital[c]			2.94	2,350.37			3.26	1,435.90
Total Variable			157.03	125,627.28			177.70	78,189.88
Total Cost			224.19	179,352.56			265.84	116,969.03

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less ginning costs) - 2 x 4.5%.

Item	Units used per acre	Unit cost	Cost per acre	Total	Value per acre a/	Value
1	2		3		4	
Materials:						
Irrigation water	[illegible] ac"	[illegible]	40.34	37,232.00	29.0	[illegible]
Seed (acid delint)	[illegible] lb.	[illegible]	[illegible]	[illegible]	[illegible] lb.	[illegible]
Labor:						
Harvest	12.32 hr.	[illegible]	[illegible]	[illegible]	[illegible] hr.	[illegible]
Irrigation	6.37 hr.	[illegible]	8.37	6,099.00	8.78 hr.	[illegible]
Hoeing	3.06 hr.	[illegible]	2.78	2,224.00	3.20 hr.	.90
Sec. Sec. & comp. Insect. b/			1.40	1,121.00		
Operations:						
Land prep.	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
Hand thin			5.00	4,000.00		5.00
Hoe weed			5.00	4,000.00		5.00
Hand Sc (5% DDT-and s)	60 lb.	.14	8.10	6,480.00	60	8.10
Cultivate furrow	[illegible]		4.25	3,400.00	10	[illegible]
Water (Sprinkle or Mg.)						
Gin	1.6 bale	[illegible]	24.32	18,816.00	2.0 bale	[illegible]
Insurance & storage	1.6 bale	[illegible]	1.30	1,320.00	2.0 bale	1.35
Interest on operating capital c/				[illegible]		
Total Overhead				[illegible]		[illegible]
Total Cost				[illegible]		[illegible]

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less plowing costs) - 2 x 4.5%.

TABLE 22

Inputs and Costs for Producing Barley

2,800-1 farm

Item	1953 Acres: 1250 — Yield: 31 cwt. Units used per acre a/	Unit cost a/	Cost per acre	Total cost	1955 Acres: 1560 — Yield: 33 Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.15	6,440.00		5.00	5.20	8,120.00
Office		.28	.28	345.00		.28	.28	435.00
Improvements		1.73	1.72	2,144.17		1.73	1.73	2,703.52
Power			3.63	4,537.50			4.02	6,271.20
Equipment			2.53	3,162.50			2.16	3,369.60
Irrigation water			8.49	10,612.50			10.67	16,645.20
Labor			4.67	5,843.50			6.07	9,470.50
Soc. Sec. & Comp. Insur. b/			.27	338.92			.35	549.29
Total Fixed			26.74	33,424.09			30.48	47,564.31
VARIABLE:								
Power:								
T-5D tractor	.38 hr.	.70	.26	325.00	.38 hr.	.70	.27	421.20
T-7D tractor	.72 hr.	.99	.71	887.50	.72 hr.	1.04	.75	1,170.00
T-9D tractor	.50 hr.	1.02	.51	637.50	.50 hr.	1.04	.52	811.20
Pickup	16 mi.	.03	.51	637.50	18 mi.	.03	.59	920.40
Truck 1½ ton	4 mi.	.05	.23	287.50	5 mi.	.05	.27	421.20
Truck 2 ton	2 mi.	.07	.12	150.00	2 mi.	.07	.14	218.40
Equipment:								
10' x 60' landplane	.72 hr.	.09	.07	87.50	.72 hr.	.09	.07	109.20
18' offset disk	.50 hr.	.47	.23	287.50	.50 hr.	.42	.21	327.60
Border disk	.22 hr.	.06	.01	12.50	.22 hr.	.05	.01	15.60
20' spiketooth harrow	.18 hr.	.04	.01	12.50	.18 hr.	.04	.01	15.60
12' grain drill	.16 hr.	.14	.02	25.00	.16 hr.	.11	.02	31.20
16' combines - SP	.36 hr.	5.36	1.93	2,412.50	.36 hr.	4.41	1.59	2,480.40
Materials:								
Irrigation water	15.6 ac"	1.25	19.52	24,400.00	18 ac"	1.30	23.33	36,394.80
Seed	80 lb.	.04	3.20	4,000.00	80 lb.	.04	3.20	4,992.00
Labor:								
Drivers	2.19 hr.	1.15	2.52	3,150.00	2.29 hr.	1.15	2.63	4,102.80
Irrigators	3.51 hr.	1.00	3.51	4,387.50	3.51 hr.	1.00	3.51	5,475.60
General	.36 hr.	.90	.32	400.00	.36 hr.	.90	.32	499.20
Soc.Sec. & Comp. Insur. b/			.37	460.38			.37	584.50
Contracts:								
Insurance ($1.50 per $100.00 of value)			1.26	1,569.38			1.06	1,660.23
Interest on operating capital c/			.79	992.92			.87	1,364.65
Total Variable			36.10	45,122.68			39.74	62,015.78
Total Cost			62.84	78,546.77			70.22	109,580.09

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses ÷ 2 x 4.5 percent.

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1	2	3	4	5	6	7
	dollars						dollars
[illegible]							
Office	.28	.28	345.00		.98	.29	86.00
Improvements	1.72	1.72	2,144.17		1.73	1.73	2,705.[illegible]
[illegible]							
[illegible]							
Labor		4.07	3,843.50			6.07	3,270.[illegible]
Sec. Bus. & Comp. Inven.b/		.27	320.02			.35	[illegible]
Total Fixed		[illegible]	13,824.[illegible]			[illegible]	[illegible]
[illegible]							
Inventory							
7-50 tractor	.70 hr.	.70	.25	425.00	.35 hr.	.70	.27	[illegible]
[illegible]	.72 hr.	.29	.71	327.50	.72 hr.	1.00	[illegible]
[illegible]							
[illegible]							
Truck 1½ ton	4 mi.	.35	.23	280.50	3 mi.	.05	.37	[illegible]
Truck 2 ton	1 mi.	.07	.12	140.[illegible]	2 mi.	.17	.14	[illegible]
[illegible]							
[illegible]	.72 hr.	.00	.01	24.50	.72 hr.	.04	.07	[illegible]
[illegible]	.50 yr.	.07	.23	287.50	.50 hr.	.42	.21	[illegible]
[illegible]	.25 cr.	.25	.03	14.50	.25 hr.	.05	.01	[illegible]
20" [illegible]	.25 hr.	.01	.02	12.50	.25 hr.	.02	.01	[illegible]
[illegible]							
18" [illegible]	.15 hr.	.11	.06	25.50	.15 hr.	.11	.02	[illegible]
16" [illegible] - 5%	.75 hr.	0.[illegible]	1.03	2,412.50	.75 hr.	[illegible]	1.30	[illegible]
[illegible]							
Tractor [illegible]	1.[illegible]	1.[illegible]	[illegible]	24,400.00	34 hr.	1.30	[illegible]	[illegible]
Seed	.04	3.20	4,000.00		30 lb.	.04	3.20	[illegible]
[illegible]							
Fertilizer	2.19 hr.	1.17	5.72	3,150.00	6.29 hr.	1.12	2.02	[illegible]
Irrigation	3.81 hr.	1.00	3.01	4,327.50	3.81 hr.	1.00	3.01	[illegible]
Control	.25 hr.	.02	.12	400.00	.34 hr.	.20	.22	[illegible]
Sec. Bus. & Comp. Inven.b/			.37	400.38			.37	[illegible]
[illegible]							
Insurance ($1,000.00				1,380.38			1.00	1,000.00
per $100,000 of value)								
Interest on operating capital		.29		2[illegible]			.07	[illegible]
Total Variable		20.10		5,182.40			[illegible]	[illegible]

[illegible]

b/ 5.6 percent of total labor costs.

c/ Total of variable expenses, 2 & 4, 5 percent.

TABLE 23

Inputs and Costs for Fallow Land

2,800-1 Farm

Item	1953 Acres — 650 Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	1955 Acres: — 700 Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.20	3,640.00
Office		.28	.28	180.00		.28	.28	195.00
Improvements		1.73	1.72	1,118.70		1.73	1.73	1,211.93
Power			1.12	728.00			1.24	868.00
Equipment			1.65	1,072.50			1.53	1,071.00
Labor			.62	403.00			.86	604.50
Soc. Sec. & Comp. Insur.[b]			.04	23.37			.05	35.06
Total Fixed			10.60	6,885.57			10.89	7,625.49
VARIABLE:								
Power:								
T-5D tractor	.41 hr.	.70	.29	188.50	.41 hr.	.70	.29	203.00
T-7D tractor	.40 hr.	.99	.40	260.00	.40 hr.	1.04	.41	287.00
Equipment:								
6' black disk plow	.41 hr.	3.94	1.62	1,053.00	.41 hr.	3.66	1.50	1,050.00
18' offset disk	.40 hr.	.47	.19	123.50	.40 hr.	.42	.17	119.00
Labor:								
Drivers	.81 hr.	115	.93	604.50	.81 hr.	115	.93	651.00
Soc.Sec. & Comp. Insur.[b]			.05	35.06			.05	37.76
Contracts:								
Interest on operating capital[c]			.08	50.95			.08	52.82
Total Variable			3.56	2,315.51			3.43	2,400.58
Total Cost			14.16	9,201.08			14.32	10,026.07

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses - 2 x 4.5 percent.

TABLE 23

Inputs and Costs for Fallow Land

Fuel, ordinary tractor			5.20	.17	3,320.00		5.00	5.20	3,620.00
Office			.28	.38	180.00		.08	.29	100.00
Improvements			1.43	1.72	1,114.00		1.74	1.72	1,214.82
Labor				.02	400.00			.86	800.00
Machinery									
T-50 tractor	.41 hr.	.70		.20	148.80	.41 hr.	.70	.09	204.00
T-70 tractor	.10 hr.	.09		.60	240.00	.40 hr.	1.05	.41	284.00
Farm vehicle									
8' disk plow	.42 hr.	3.94		1.02	1,020.00	.41 hr.	3.66	1.80	1,820.00
18' offset disc	.40 hr.	.47		.10	122.30	.40 hr.	.42	.17	114.00
Labor									
Drivers	.02 hr.	115		.23	604.80	.01 hr.	112	.23	608.00
Sec.Sec. & Comp. Insur.[b]				.05	34.06			.05	47.76
Contracts									
Interest on operating capital[a]				.08	50.95			.08	[illegible]
Total Variable				3.56	2,319.91			2.43	2,400.8[illegible]
Total Cost				14.16	9,240.08			14.22	10,208.97

[a] 5% percent x total labor cost.

[b] Total of variable expenses - 2 x 4.5 percent.

TABLE 24

Inputs and Costs for Producing Cotton

2,800-2 Farms

Item	1953 Acres: 800 — Yield: 1.6 bales				1955 Acres: 440 — Yield: 2.0 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.25	4,200.00		5.00	5.09	2,240.00
Office		.28	.28	225.00		.28	.27	120.00
Improvements		1.73	1.75	1,398.38		1.73	1.70	745.80
Power			8.77	7,016.00			10.75	4,730.00
Equipment			12.48	9,984.00			20.66	9,090.40
Irrigation water			20.24	16,192.00			20.16	8,870.40
Labor			17.38	13,903.50			21.07	9,269.00
Soc. Sec. & Comp. Insur.[b]			1.01	806.40			1.22	537.60
Total Fixed			67.16	53,725.28			80.92	35,603.20
VARIABLE:								
Power:								
T-5D tractor	.50 hr.	.70	.35	280.00	.50 hr.	.71	.35	154.00
T-7D tractor	1.49 hr.	.99	1.47	1,176.00	1.49 hr.	1.02	1.52	668.80
T-9D tractor	.61 hr.	1.02	.62	496.00	.61 hr.	1.02	.62	272.80
W-2 tractor	6.16 hr.	.73	4.52	3,616.00	6.61 hr.	.81	4.97	2,186.80
Pickup	32 mi.	.03	1.01	808.00	35 mi.	.03	1.13	497.20
Truck- 1½ ton	8 mi.	.05	.45	360.00	9 mi.	.05	.51	224.40
Truck- 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.27	118.80
Equipment:								
5' ditcher	.30 hr.	.04	.01	8.00	.30 hr.	.04	.01	4.40
8' scraper	.30 hr.	.06	.02	16.00	.30 hr.	.07	.02	8.80
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.20	.07	56.00	.38 hr.	.25	.09	39.60
18' offset disk	.16 hr.	.47	.07	56.00	.16 hr.	.40	.06	26.40
24' offset disk	.45 hr.	.88	.39	312.00	.45 hr.	1.59	.72	316.80
30' spiketooth harrow	.09 hr.	.05		3.89	.09 hr.	.05		2.02
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	.89	.18	79.20
4-row lister	.25 hr.	.26	.07	56.00	.25 hr.	.33	.08	35.20
4-row planter	.31 hr.	.12	.04	32.00	.31 hr.	.15	.05	22.00
4-row cultivator	2.32 hr.	.54	1.25	1,000.00	2.32 hr.	.74	1.72	756.80
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.56	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)

Table 24 continued.

Item	1953 Acres: 800 — Yield: 1.6 bales				1955 Acres: 440 — Yield: 2.0 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Materials:								
Irrigation water	37.2 ac"	1.25	46.54	37,232.00	39.0 ac"	1.23	47.81	21,036.40
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
Labor:								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.42 hr.	1.15	13.13	5,777.20
Irrigators	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Ins.[b]			1.40	1,121.02			1.43	630.09
Contracts:								
Fertilize (NH_3)	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2X (5% DDT - 50% S)	60 lb.		8.10	6,480.00			8.10	3,564.00
Defoliate ($NaClO_3$ W/Borate or Mg.)	10 lb.		4.25	3,400.00			4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insur. & storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital[c]			2.94	2,350.37			3.18	1,397.15
Total Variable			157.03	125,627.28			173.70	76,428.86
Total Cost			224.19	179,352.56			254.62	112,032.06

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less ginning) ÷ 2 x 4.5 percent.

Item	Man-hours per month	Cost per man-hour	Total cost
Good (soil solids)	18	46.54	27,252.00
Drivers	11.47	1.15	12,450.00
Laborers	8.37	.70	9,072.00
Clerical	4.00	.60	2,520.00
Too. Sha. & Comp. Ins.[3]			
Serviced (Pipe)	128	14.	19,584.00
Sand bins		5.00	4,000.00
Bins, wood		5.00	4,000.00
Lost 2A (20' 3/8" - 30% S)	60	9.10	6,480.00
Deliveries (Hauling Operator or Mg.)		4.25	3,400.00
Trans. & storage	1.6 bale	1.50	1,020.00
			124,027.28
Total cost		224.10	179,202.28

[3] Included.

[4] 5.0 percent of total labor cost.

[5] Total of 9 items. Average (Soil Hauling) = 2 x 4.5 percent.

TABLE 25

Inputs and Costs for Producing Barley,

2,800-2 Farms

Item	1953				1955			
	Acres: 1,250 — Yield: 31 cwt.				Acres: 1,460 — Yield: 33 cwt.			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.15	6,440.00		5.00	5.18	7,560.00
Office		.43	.28	345.00		.43	.28	405.00
Improvements		2.47	1.72	2,144.17		2.47	1.72	2,517.08
Power			3.63	4,537.50			3.88	5,664.80
Equipment			2.53	3,162.50			2.23	3,255.80
Irrigation water			8.49	10,612.50			9.31	13,592.60
Labor			4.67	5,843.50			5.38	7,858.50
Soc. Sec. & Comp. Insur.[b]			.27	338.92			.31	455.79
Total Fixed			26.74	33,424.09			28.29	41,309.57
VARIABLE:								
Power:								
T-5D tractor	.38 hr.	.70	.26	325.00	.38 hr.	.71	.27	394.20
T-7D tractor	.72 hr.	.99	.71	887.50	.72 hr.	1.02	.73	1,065.80
T-9D tractor	.50 hr.	1.02	.51	637.50	.50 hr.	1.02	.51	744.60
Pickup	16 mi.	.03	.51	637.50	18 mi.	.03	.57	832.20
Truck 1½ ton	4 mi.	.05	.23	287.50	5 mi.	.05	.26	379.60
Truck 2 ton	2 mi.	.07	.12	150.00	2 mi.	.07	.13	189.80
Equipment:								
10' x 60' landplane	.72 hr.	.09	.07	87.50	.72 hr.	.09	.07	102.20
18' offset disk	.50 hr.	.47	.23	287.50	.50 hr.	.40	.20	292.00
Border disk	.22 hr.	.06	.01	12.50	.22 hr.	.06	.01	14.60
20' spike tooth harrow	.18 hr.	.04	.01	12.50	.18 hr.	.03	.01	14.60
12' grain drill	.16 hr.	.14	.02	25.00	.16 hr.	.12	.02	29.20
16' harvester SP	.36 hr.	5.36	1.93	2,412.50	.36 hr.	4.70	1.68	2,452.80
Materials:								
Irrigation water	15.6 ac"	1.25	19.52	24,400.00	18 ac"	1.23	22.07	32,222.20
Seed	80 lb.	.04	3.20	4,000.00	80 lb.	.04	3.20	4,672.00

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Table 25

Inputs and Costs of Production Budget

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]							
[illegible]							
[illegible]							
Power							
Equipment							
Irrigation water							
Labor							
[illegible]							
[illegible]							
VARIABLES							
[illegible]							
Tractor operation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tractor operation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Plowing	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Spread 15 ton	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Spread 2 ton	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Harrow							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]							
Irrigation water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

(Continued on next page)

Table 25 continued.

Item	1953 Acres: 1,250 — Yield: 31 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	1955 Acres: 1,460 — Yield: 33 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Labor:								
Drivers	2.19 hr.	1.15	2.52	3,150.00	2.27 hr.	1.15	2.61	3,810.60
Irrigators	3.51 hr.	1.00	3.51	4,387.50	3.51 hr.	1.00	3.51	5,124.60
General	.36 hr.	.90	.32	400.00	.36 hr.	.90	.32	467.20
Soc. Sec. & Comp. Insur.[b]			.37	460.38			.37	545.34
Contracts:								
Insurance ($1.50 per $100.00 of value)			1.26	1,569.38			1.06	1,553.80
Interest on operating capital[c]			.79	992.92			.85	1,235.42
Total Variable			36.10	45,122.68			38.45	56,142.76
Total Cost			62.84	78,546.77			66.74	97,452.33

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses ÷ 2 x 4.5 percent.

Item	Per acre	Cost a/	Total acre cost	Per acre	Cost b/	Total farm cost
1	2	3	4	5	6	7
Fertiliz	2.15 lbs.	1.15	2.52	2.27 lbs.	1.15	2.61
Insecticide	3.51 oz.	1.00	3.51	3.51 lbs.	1.00	3.51
General	.25 hr.	.50	.32	.36 hr.	.90	.32
Soc. Sec. & Comp. Insur. b/			.37			.37
Indirects:						
Insurance ($1.50 per $100.00 of value)			1.26			1.06
Interest on operating capital c/			.79			.85
Total Variable						
Total Cost			62.54			56.71

a/ Rounded.

b/ 7.8 percent x total labor cost.

c/ Total of variable expenses - 2 x 6.5 percent.

TABLE 26

Inputs and Costs for Producing Sugar Beets,

2,800-2 Farms

Item	1955 Acres: 200 — Yield: 22 tons			
	Units Used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
FIXED:				
Real estate taxes		5.00	5.60	1,120.00
Office		.28	.30	60.00
Improvements		1.73	1.86	372.90
Power			6.29	1,258.00
Equipment			4.12	824.00
Irrigation water			21.71	4,342.00
Labor			13.10	2,619.50
Soc. Sec. & Comp. Insur. [b]			.76	151.93
Total Fixed			53.74	10,748.33
VARIABLE:				
Power:				
T-5D tractor	.35 hr.	.71	.25	50.00
T-7D tractor	1.04 hr.	1.02	1.06	212.00
T-9D tractor	.68 hr.	1.02	.69	138.00
W-2 tractor	2.38 hr.	.81	1.92	384.00
Pickup	18 mi.	.03	.57	114.00
Truck 1½ ton	5 mi.	.05	.25	50.00
Truck 2 ton	2 mi.	.07	.13	26.00
Equipment:				
5' ditcher	.30 hr.	.04	.01	2.00
8' scraper	.35 hr.	.07	.03	6.00
10' x 60' landplane	.36 hr.	.09	.03	6.00
10' chisel	.38 hr.	.25	.09	18.00
18' offset disk	.68 hr.	.40	.27	54.00
20' spiketooth harrow	.18 hr.	.03	.01	2.00
12' cultipacker	.20 hr.	.89	.18	36.00
4-row lister	.25 hr.	.33	.08	16.00
4-row planter	.31 hr.	.15	.05	10.00
4-row cultivator	1.62 hr.	.74	1.20	240.00
Materials:				
Irrigation water	42 ac"	1.23	51.49	10,298.00
Seed	8 lb.	.46	3.68	736.00
Labor:				
Drivers	5.12 hr.	1.15	5.89	1,178.00
Irrigators	9.45 hr.	1.00	9.45	1,890.00
Soc. Sec. & Comp. Insur. [b]			.89	177.94

(Continued on next page.)

Item	Unit of issue per week	Unit cost	Monthly per week	Total cost
	a	b	c	d
FURNISH:				
Real estate taxes			5.00	5.60	1,120.00
Office			.28	.30	60.00
Improvements			1.73	1.85	370.00
Power				6.20	1,234.00
Equipment				4.12	824.00
Irrigation water				21.77	4,354.00
Labor				12.10	2,418.50
Soc. Sec. & Comp. Insur. b/				[illegible]	[illegible]
Total fixed				[illegible]	20,725.13
VARIABLE:					
Farmer					
T-20 tractor	.20 hr.		.71	.26	52.00
T-40 tractor	1.04 hr.		1.06	1.00	212.00
T-40 grader	.09 hr.		1.02	.09	18.00
W-6 tractor	2.38 hr.		.81	1.92	384.00
Hidden	15 mi.		.03	.07	14.00
Truck 1½ ton	5 mi.		.06	.15	30.00
Truck ½ ton	2 mi.		.07	.14	28.00
Equipment					
5' disker	.10 hr.		.04	.01	2.00
8' harrow	.35 hr.		.07	.03	6.00
12' x 6" leveler	.50 hr.		.09	.05	10.00
10' moldboard	.35 hr.		.25	.09	18.00
1-row offset disk	.05 hr.		.40	.07	14.00
20' spreader, barrow	.18 hr.		.03	.01	2.00
12' cultipacker	.20 hr.		.09	.18	36.00
Furrow lister	.05 hr.		.31	.08	16.00
Furrow planter	.31 hr.		.15	.05	10.00
Furrow cultivator	1.60 hr.		.74	1.20	240.00
Pumping					
Irrigation water	42 acf		1.27	53.40	[illegible]
Seed	8 lbs.		.44	3.52	704.00
Labor					
Harvest	3.12 hr.		2.15	6.00	1,176.00
Irrigation	9.45 hr.		1.00	9.45	1,890.00
Soc. Sec. & Comp. Insur. b/				.39	477.34

(Continued on next page.)

Table 26 continued.

Item	1955			
	Acres: 200 — Yield: 22 tons			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4
		dollars		
Contracts:				
Thin			12.50	2,500.00
Fertilize (NH_3)	119 lb.		14.00	2,800.00
Weed			8.00	1,600.00
Harvest			29.00	5,800.00
Haul			15.00	3,000.00
Interest on operating capital[c]			2.54	507.24
Total Variable			159.26	31,851.18
Total Cost			213.00	42,599.51

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less harvest & haul) ÷ 2 x 4.5 percent.

TABLE 27

Inputs and Costs for Fallow Land,

2,800-2 Farms

Item	1953				1955			
	Acres: — 650				Acres: — 600			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.13	3,080.00
Office		.28	.28	180.00		.28	.28	165.00
Improvements		1.73	1.72	1,118.70		1.73	1.71	1,025.47
Power			1.12	728.00			1.21	726.00
Equipment			1.65	1,072.50			1.75	1,050.00
Labor			.62	403.00			.67	403.00
Soc. Sec. & Comp. Insur.[b]			.04	23.37			.04	23.37
Total Fixed			10.60	6,885.57			10.79	6,472.84
VARIABLE:								
Power:								
T-5D tractor	.41 hr.	.70	.29	188.50	.41 hr.	.71	.29	174.00
T-7D tractor	.40 hr.	.99	.40	260.00	.40 hr.	1.02	.41	246.00
Equipment:								
disk-plow, 6' blade	.41 hr.	3.94	1.62	1,053.00	.41 hr.	4.27	1.75	1,050.00
18' offset disk	.40 hr.	.47	.19	123.50	.40 hr.	.40	.16	96.00
Labor:								
Driver	.81 hr.	1.15	.93	604.50	.81 hr.	1.15	.93	558.00
Soc. Sec. & Comp. Insur.[b]			.05	35.06			.05	32.36
Contracts:								
Interest on operating capital[c]			.08	50.95			.08	48.52
Total Variable			3.56	2,315.51			3.67	2,204.88
Total Cost			14.16	9,201.08			14.46	8,677.72

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses ÷ 2 x 4.5 percent.

Limits and Costs for Follow Land.

Item	1965 Inputs — Only Units per year[2]	Units cost[3]	Cost per acre	Total cost	1966 Inputs — Only Units per year[2]	Units cost[3]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
	dollars				dollars			
Land rental taxes		5.00	5.17	3,360.00		4.00	5.13	3,320.00
Gasoline		.28	.38	180.00		.32	.20	130.00
Improvements		1.75	1.72	1,118.70		1.75	1.71	1,050.47
Power			1.12	728.00			1.21	720.00
Supplies			1.05	1,072.50			1.[illegible]	1,0[illegible]
Labor			.02	407.00			.02	[illegible]
Soc. Sec. & Comp. Insur.[5]			.04	24.27			.04	20.22
Total Fixed			10.00	6,588.27			10.79	6,072.96
VARIABLE:								
Power:								
D-80 tractor	.41 hr.	.70	.29	189.50	.41 hr.	.71	.29	17[illegible]
T-20 tractor	.40 hr.	.90	.40	200.00	.40 hr.	1.02	.4[illegible]	[illegible]
Implements:								
Plows-2-, 4' bloc	.11 hr.	3.04	1.02	1,022.00	.41 hr.	4.27	1.75	1,050.00
10' offset disc	.40 hr.	.47	.19	120.00	.40 hr.	.40	.16	[illegible]
Labor:								
Driver	.81 hr.	1.15	.23	404.50	.81 hr.	1.15	.23	404.00
Soc. Sec. & Comp. Insur.[5]			.05	35.05			.05	[illegible]
Overhead:								
Interest on operating capital[6]			.08	50.05			.08	44.52
Total Variable			3.55	2,415.51			3.97	2,204.88
Total Cost			14.16	9,203.06			14.46	8,677.72

Accumulated.

[5] 5.1 percent x total labor costs.

[6] Total of variable expenses = 2 x 4.5 percent.

TABLE 28

Inputs and Costs for Producing Cotton,

2,800-3 Farms

Item	1953 Acres: 800 — Yield: 1.6 bales				1955 Acres: 440 — Yield: 2.0 bales			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.25	4,200.00		5.00	5.09	2,240.00
Office		.28	.28	225.00		.28	.27	120.00
Improvements		1.73	1.75	1,398.38		1.73	1.70	745.80
Power			7.74	6,192.00			9.71	4,272.40
Equipment			11.11	8,888.00			19.18	8,439.20
Irrigation water			16.44	13,152.00			19.77	8,698.80
Labor			15.11	12,090.00			19.69	8,664.50
Soc. Sec. & Comp. Insur. b/			.88	701.22			1.14	502.54
Total Fixed			58.56	46,846.60			76.55	33,683.24
VARIABLE:								
Power:								
T-5D tractor	.50 hr.	.71	.36	288.00	.50 hr.	.72	.36	158.40
T-7D tractor	1.49 hr.	.94	1.39	1,112.00	1.49 hr.	.98	1.46	642.40
T-9D tractor	.61 hr.	1.00	.61	488.00	.61 hr.	1.01	.62	272.80
W-2 tractor	6.16 hr.	.71	4.35	3,480.00	6.16 hr.	.78	4.77	2,098.80
Pickup ½ ton	32 mi.	.03	1.01	808.00	37 mi.	.03	1.18	519.20
Truck 1½ ton	8 mi.	.05	.45	360.00	10 mi.	.05	.53	233.20
Truck 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.28	123.20
Equipment:								
5' ditcher	.30 hr.	.02	.01	8.00	.30 hr.	.03	.01	4.40
8' scraper	.30 hr.	.04	.01	8.00	.30 hr.	.06	.02	8.80
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.09	.04	32.00	.38 hr.	.13	.05	22.00
10' offset	.16 hr.	.55	.09	72.00	.16 hr.	.47	.08	35.20
24' offset	.45 hr.	.50	.22	176.00	.45 hr.	.75	.34	149.60
30' spiketooth harrow	.09 hr.	.06	.01	8.00	.09 hr.	.06	.01	4.40
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	1.30	.26	114.40
4-row lister	.25 hr.	.12	.03	24.00	.25 hr.	.18	.04	17.60
4-row planter	.31 hr.	.06	.02	16.00	.31 hr.	.08	.03	13.20
4-row cultivator	2.32 hr.	.38	.88	704.00	2.32 hr.	.60	1.39	611.60
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.57	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)

Inputs and Costs for Producing Cotton.

	19[illegible]				19[illegible]			
	Average 300 — Yield: [illegible] bales				[illegible] — Yield: 2.[illegible] bales			
	Units used	Unit cost	Cost per [illegible]	Total	Units used	Unit cost	Cost per [illegible]	Total
	1	2	3	4	5	6	7	8
Real estate taxes		5.00	5.25	4,200.00		5.00	5.09	2,[illegible]
Office		.28	.29	232.00		.26	.27	[illegible]
Improvements		1.73	1.75	[illegible]		1.73	1.70	[illegible]
Water			7.73	[illegible]			9.71	4,[illegible]
Equipment			11.11	8,[illegible]			10.15	[illegible]
Irrigation water			16.44	13,152.00			17.77	[illegible]
Labor			15.11	12,[illegible]			10.00	[illegible]
Gen. Gov. & Comp. Tenant.[1/]			.08	[illegible]			1.11	[illegible]
Total Fixed			56.55	[illegible]			76.55	33,[illegible]
VARIABLE:								
Fuel:								
C-3 tractor	.50 hr.	.71	.36	[illegible]	.50 hr.	.72	.36	[illegible]
C-7 tractor	1.40 hr.	.94	1.3[illegible]	1,112.00	1.40 hr.	.96	1.46	[illegible]
E-12 tractor	.71 hr.	1.00	.61	488.00	.71 hr.	1.03	.72	[illegible]
E-2 tractor	6.10 hr.	.71	4.3[illegible]	2,[illegible]	6.10 hr.	.76	[illegible]	2,[illegible]
Stubop & tam	42 gal.	.35	1.01	808.00	42 gal.	.39	1.18	[illegible]
Truck 1½ ton	8 mi.	.35	.65	160.00	12 mi.	.38	[illegible]	[illegible]
Truck 2 ton	[illegible] mi.	.07	.24	192.00	4 mi.	.09	.25	[illegible]
Lubricants:								
D-4 tractor	.50 hr.	[illegible]	.01	8.00	.40 hr.	.00	.01	[illegible]
J-2 tractor	[illegible] hr.	[illegible]	.01	8.00	[illegible] hr.	.01	.02	[illegible]
A (C-) implements	[illegible] hr.	.09	.07	[illegible]	[illegible] hr.	.09	.07	30.80
10' chisel	[illegible] hr.	[illegible]	.24	[illegible]	[illegible] hr.	.13	.05	[illegible]
6' offset	[illegible] hr.	.30	.09	74.00	[illegible] hr.	.17	.06	[illegible]
4' offset	[illegible] hr.	.30	.25	[illegible]	[illegible] hr.	.75	.57	[illegible]
10' spike-tooth harrow	[illegible] hr.	.31	.07	8.00	[illegible] hr.	.00	.01	[illegible]
7' cultivator	.20 hr.	.71	[illegible]	112.00	.20 hr.	1.30	.26	[illegible]
4-row lister	[illegible] hr.	.12	.05	24.00	[illegible] hr.	.18	.04	17.[illegible]
4-row planter	.01 hr.	.06	.02	16.00	.01 hr.	.08	.02	[illegible]
4-row cultivator	2.42 hr.	.06	.06	700.00	2.42 hr.	.80	1.46	[illegible]
1-row bottom plower	2.78 hr.	1.06	[illegible]	[illegible]	2.78 hr.	[illegible]	[illegible]	[illegible]
Power rodent killer	1.50 hr.	.06	[illegible]	[illegible]	1.50 hr.	.10	.15	[illegible]
Stalk cutter	.50 hr.	.24	[illegible]	[illegible]	.50 hr.	.10	.07	[illegible]

(Continued on next page.)

Table 28 continued.

Item	1953 Acres: 800 — Yield: 1.6 bales				1955 Acres: 440 — Yield: 2.0 bales			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Material:								
Irrigation water	37.2 ac"	1.16	43.04	34,432.00	39.0 ac"	1.22	47.46	20,882.40
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
Labor:								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.48 hr.	1.15	13.20	5,808.00
Irrigators	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Insur.[b]			1.40	1,121.02			1.44	631.88
Contracts:								
Fertilize (NH_3)	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2X (5% DDT - 50% S)	60 lb.		8.10	6,480.00	60 lb.		8.10	3,564.00
Defoliate ($NaClO_3$ W/Borate or Mg.)	10 lb.		4.25	3,400.00	10 lb.		4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insurance & Storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital[c]			2.84	2,271.80			3.15	1,385.76
Total Variable			152.57	122,056.82			172.53	75,911.24
Total Cost			211.13	168,903.42			249.08	109,594.48

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less ginning) ÷ 2 x 4.5 percent.

TABLE 29

Inputs and Costs for Producing Barley,

2,800-3 Farms

Item	1953 Acres: 350 Yield: 31 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	1955 Acres: 810 Yield: 33 cwt. Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.20	1,820.00		5.00	5.18	4,200.00
Office		.28	.28	97.50		.28	.28	225.00
Improvements		1.73	1.73	605.96		1.73	1.73	1,398.38
Power			3.34	1,169.00			3.72	3,013.20
Equipment			7.26	2,541.00			3.54	2,867.40
Irrigation water			6.90	2,415.00			9.13	7,395.30
Labor			4.03	1,410.50			5.22	4,231.50
Soc. Sec. & Comp. Insur.[b]			.23	81.81			.30	245.43
Total Fixed			28.97	10,140.77			29.10	23,576.21
VARIABLE:								
Power:								
T-5D tractor	.38 hr.	.71	.27	94.50	.38 hr.	.72	.27	218.70
T-7D tractor	.72 hr.	.94	.67	234.50	.72 hr.	.98	.70	567.00
T-9D tractor	.50 hr.	1.00	.50	175.00	.50 hr.	1.01	.51	413.10
Pickup	16 mi.	.03	.51	178.50	18 mi.	.03	.59	477.90
Truck 1½ ton	4 mi.	.05	.23	80.50	5 mi.	.05	.27	218.70
Truck 2 ton	2 mi.	.07	.12	42.00	2 mi.	.07	.14	113.40
Equipment:								
10' x 60' landplane	.72 hr.	.09	.07	24.50	.72 hr.	.09	.07	56.70
18' offset disk	.50 hr.	.55	.28	98.00	.50 hr.	.47	.24	194.40
Border disk	.22 hr.	.23	.05	17.50	.22 hr.	.10	.02	16.20
20' spiketooth harrow	.18 hr.	.04	.01	3.50	.18 hr.	.04	.01	8.10
12' grain drill	.16 hr.	.50	.08	28.00	.16 hr.	.22	.03	24.30
16' harvester SP	.36 hr.	17.70	6.37	2,229.50	.36 hr.	7.97	2.87	9,324.70
Materials:								
Irrigation water	15.6 ac"	1.16	18.05	6,317.50	18 ac"	1.22	21.91	17,747.10
Seed	80 lb.	.04	3.20	1,120.00	80 lb.	.04	3.20	2,592.00

(Continued on next page.)

Table 29 continued.

Item	1953				1955			
	Acres: 350 Yield: 31 cwt.				Acres: 810 Yield: 33 cwt.			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Labor:								
Drivers	2.19 hr.	1.15	2.52	882.00	2.29 hr.	1.15	2.63	2,130.30
Irrigators	3.51 hr.	1.00	3.51	1,228.50	3.51 hr.	1.00	3.51	2,843.10
General	.36 hr.	.90	.32	112.00	.36 hr.	.90	.32	259.20
Soc. Sec. & Comp. Insur. b/			.37	128.90			.37	303.49
Contracts:								
Insurance ($1.50 per $100.00 of value)			1.26	439.42			1.06	862.04
Interest on operating capital c/			.86	302.27			.87	705.83
Total Variable			39.25	13,736.59			39.59	32,076.26
Total Cost			68.22	23,877.36			68.69	55,652.47

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Totalof variable expenses ÷ 2 x 4.5 percent.

TABLE 30

Inputs and Costs for Producing Melons,

2,800-3 Farms

Item	1953				1955			
	Acres: 900 — Yield: 175 crates				Acres: 750 — Yield: 175 crates			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.13	4,620.00		5.00	5.23	3,920.00
Office		.28	.28	247.50		.28	.28	210.00
Improvements		1.73	1.71	1,538.21		1.73	1.74	1,305.15
Power			4.70	4,230.00			5.49	4,117.50
Equipment			1.91	1,719.00			2.44	1,830.00
Irrigation water			12.46	11,214.00			14.30	10,725.00
Labor			6.94	6,246.50			9.13	6,851.00
Soc. Sec. & Comp. Insur.[b]			.40	362.30			.53	397.36
Total Fixed			33.53	30,177.51			39.14	29,356.01
VARIABLE:								
Power:								
T-5D tractor	.30 hr.	.71	.21	189.00	.30 hr.	.72	.22	165.00
T-7D tractor	1.20 hr.	.94	1.12	1,008.00	1.20 hr.	.98	1.17	877.50
T-9D tractor	.62 hr.	1.00	.62	558.00	.62 hr.	1.01	.63	472.50
W-2 tractor	1.42 hr.	.71	1.00	900.00	1.42 hr.	.76	1.10	825.00
Pickups	16 mi.	.03	.51	459.00	18 mi.	.03	.59	442.50
Truck 1½ ton	4 mi.	.05	.23	207.00	5 mi.	.05	.27	202.50
Truck 2 ton	2 mi.	.07	.12	108.00	2 mi.	.07	.14	105.00
Equipment:								
5' ditcher (double-wing)	.15 hr.	.02		2.97	.15 hr.	.03	.01	7.50
8' scraper	.15 hr.	.04	.01	9.00	.15 hr.	.06	.01	7.50
10' x 60' landplane	.72 hr.	.09	.07	63.00	.72 hr.	.09	.07	52.50
10' chisel	.38 hr.	.09	.04	36.00	.38 hr.	.13	.05	37.50
18' offset disk	.32 hr.	.55	.18	162.00	.32 hr.	.47	.15	112.50
24' offset disk	.30 hr.	.50	.15	135.00	.30 hr.	.75	.22	165.00
30' spiketooth harrow	.10 hr.	.06	.01	9.00	.10 hr.	.06	.01	7.50
4-row lister	.25 hr.	.12	.03	27.00	.25 hr.	.18	.04	30.00
4-row planter	.31 hr.	.06	.02	18.00	.31 hr.	.08	.03	22.50
4-row cultivator	.86 hr.	.38	.33	297.00	.86 hr.	.60	.52	390.00

(Continued on next page.)

TABLE 20

Inputs and Costs for Producing Alfalfa,

Item	1953											
	Per acre	Cost	Per acre	Cost	Per acre	Cost	Per acre	Cost	Per acre	Cost	Per acre	Cost
	1	2	3	4	5	6	7	8				
	Actual						Allowed					
Real estate taxes		5.00	5.13	4,620.00			[illegible]	7,250.00				
Office		.28	.29	247.50			.28	210.00				
Improvements		1.73	1.71	1,539.21			1.73	1,305.15				
Seed			4.70	4,230.00			5.00	4,117.50				
Equipment			1.91	1,719.00			2.04	1,840.00				
Irrigation water			12.46	11,214.00			14.40	13,720.00				
Labor			6.94	6,246.00			9.12	8,021.00				
Soc.-Sec.-& Corpl. Insur.[b]			.40	360.00			.52	390.00				
Total Fixed			33.52	30,177.51			39.14	36,156.01				
Variable:												
Power:												
T-1 tractor	.90 hr.	.71	.41	180.00	.30 hr.	.72	.22	165.00				
T-2 tractor	1.20 hr.	.94	1.12	1,008.00	1.80 hr.	.99	1.17	877.50				
[illegible]	.15 hr.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
M-2 tractor	1.42 hr.	.71	1.00	900.00	1.42 hr.	.74	1.10	825.00				
Pickups	16 mi.	.05	.21	459.00	18 mi.	.07	.09	642.50				
Truck 1½ ton	4 mi.	.05	.23	207.00	5 mi.	.06	.27	202.50				
Truck 2 ton	2 mi.	.07	.12	108.00	2 mi.	[illegible]	.14	105.00				
Implements:												
5' disker (double-wing)	.15 hr.	.02		2.07	.15 hr.	.08	.01	7.50				
8' scraper	.15 hr.	.04	.01	9.00	.15 hr.	.06	.01	7.50				
10' x 60' land-plane	.72 hr.	.09	.07	63.00	.72 hr.	.09	.07	52.50				
10' chisel	.40 hr.	.09	.04	36.00	.30 hr.	.13	.01	37.50				
14' offset disk	.32 hr.	.35	.18	162.00	.32 hr.	.47	.15	112.50				
24' offset disk	.40 hr.	.30	.15	135.00	.40 hr.	.75	.22	[illegible]				
70' spike-tooth harrow	.10 hr.	.06	.01	9.00	.10 hr.	.06	.01	7.50				
4-row lister	.25 hr.	.12	.03	27.00	.25 hr.	.09	.04	30.00				
4-row planter	.31 hr.	.06	.02	18.00	.31 hr.	.06	.05	22.50				
4-row cultivator	.36 hr.	.31	.45	207.00	.80 hr.	[illegible]	.50	[illegible]				

(Continued on next page.)

Table 30 continued.

Item	1953 Acres: 900 — Yield: 175 crates				1955 Acres: 750 — Yield: 175 crates			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Materials:								
Irrigation water	28.2 ac"	1.16	32.63	29,367.00	28.2 ac"	1.22	34.32	25,740.00
Seed	3 lb.	1.45	4.35	3,915.00	3 lb.	1.45	4.35	3,262.50
Labor:								
Drivers	4.13 hr.	1.15	4.75	4,275.00	4.23 hr.	1.15	4.86	3,645.00
Irrigators	6.35 hr.	1.00	6.35	5,715.00	6.35 hr.	1.00	6.35	4,762.50
General	.31 hr.	.90	.28	252.00	.31 hr.	.90	.28	210.00
Soc. Sec. & Comp. Insur. b/			.66	594.04			.67	499.82
Contracts:								
Fertilize (NH_3)	119 lb.		14.00	12,600.00	119 lb.		14.00	10,500.00
Dust 3X - 5% DDT	90 lb.	.12	10.80	9,720.00	90 lb.	.12	10.80	8,100.00
1X - 1% TEPP	40 lb.	.21	8.40	7,560.00	40 lb.	.21	8.40	6,300.00
Turn vines			10.50	9,450.00			10.50	7,875.00
Chop weed			25.00	22,500.00			25.00	18,750.00
Harvest	175 crate	.27	47.25	42,525.00	175 crate	.27	47.25	35,437.50
Pack & haul	175 crate	1.48	259.00	233,100.00	175 crate	1.48	259.00	194,250.00
Interest on operating capital c/			2.75	2,478.06			2.81	2,105.26
Total Variable			431.37	388,239.07			433.82	325,360.08
Total Cost			464.90	418,416.58			472.96	354,716.09

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less harvest, pack & haul) ÷ 2 x 4.5 percent.

Table 30 continued.

Item	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1	2	3	4	5	6	7	8
	[illegible]							
Variable:								
Tractor and motor [illegible]	26.2	.07	1.1[illegible]	72.03	29,207.00	27.2	.07	1.22	34.[illegible]	25,740.00
[illegible]	2	1h.	[illegible]	4.35	3,615.00	3	1h.	1.35	1.36	3,202.5[illegible]
Labor:										
Drivers	4.12	hr.	1.15	4.70	4,275.00	.20	hr.	1.15	4.86	3,6[illegible]
Implements	6.25	hr.	1.00	6.35	5,715.00	[illegible]	hr.	1.00	6.35	4,762.[illegible]
Owners	.31	hr.	.90	.25	252.00	.11	hr.	.90	.28	210.00
Soc. Sec. & Occp. Insur.[b]				.00	594.00				.27	409.00
Overhead:										
[illegible]										
Fuel (2% - 5% [illegible]	90	lb.	.12	10.80	9,720.00	00	lb.	.12	10.80	1,100.00
L - [illegible]	40	lb.	.07	8.40	7,560.00	40	lb.	.21	8.40	6,300.00
Farm [illegible]				10.50	9,450.00				10.50	7,875.00
Other [illegible]				25.00	22,500.00				25.00	18,750.00
Repairs	175	[illegible]	.2[illegible]	47.25	42,525.00	175	[illegible]	.27	47.25	35,437.50
Fuel & Oil	175	[illegible]	1.48	259.00	233,100.00	175	[illegible]	1.48	259.00	194,250.00
Interest on operating capital[d]				6.75	2,[illegible]				6.[illegible]	2,[illegible]
Total Variable				[illegible]	298,[illegible]				472.[illegible]	429,[illegible]
Total Cost				464.30	418,[illegible]				472.[illegible]	354,7[illegible]

a/ Rounded.

b/ 8.8 percent x total labor cost.

c/ Total of variable expenses (1 [illegible], [illegible] & 7 [illegible]) ÷ 2 x 4.5 percent.

TABLE 31

Inputs and Costs for Fallow Land,

2,800-3 Farms

Item	1953				1955			
	Acres: 650				Acres: 700			
	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost	Units used per acre[a]	Unit cost[a]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
FIXED:								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.20	3,640.00
Office		.43	.28	180.00		.43	.28	195.00
Improvements		2.47	1.72	1,118.70		2.47	1.73	1,211.92
Power			1.02	663.00			1.13	791.00
Equipment			1.68	1,092.00			1.54	1,078.00
Labor			.62	403.00			.58	403.00
Soc. Sec. & Comp. Insur.[b]			.04	23.37			.03	23.37
Total Fixed			10.53	6,840.07			10.49	7,342.29
VARIABLE:								
Power:								
T-5D tractor	.41 hr.	.71	.29	188.50	.41 hr.	.72	.29	203.00
T-7D tractor	.40 hr.	.94	.37	240.50	.40 hr.	.98	.39	273.00
Equipment:								
6' blade-disk plow	.41 hr.	3.94	1.62	1,053.00	.41 hr.	3.66	1.50	1,050.00
18' offset disk	.40 hr.	.55	.22	143.00	.40 hr.	.47	.19	133.00
Labor:								
Drivers	.81 hr.	1.15	.93	604.50	.81 hr.	1.15	.93	651.00
Soc. Sec. & Comp. Insur.[b]			.05	35.06			.05	37.76
Contracts:								
Interest on operating capital[c]			.08	50.95			.08	52.82
Total Variable			3.56	2,315.51			3.43	2,400.58
Total Cost			14.09	9,155.58			13.92	9,742.87

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses - 2 x 4.5 percent.

TABLE 31

Inputs and Costs for Fallow Land,

Item	Inputs used per acre[1]	Unit cost[2]	Cost per acre	Total cost	Inputs used per acre[1]	Unit cost[2]	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
	Dollars				Dollars			
Fixed:								
Real estate taxes			5.00	3,360.00			5.20	3,640.00
Other			.15	180.00			.28	196.00
[illegible]			[illegible]	[illegible]			[illegible]	[illegible]
Power			1.02	669.00			1.13	791.00
Equipment			1.68	1,087.00			1.04	1,070.00
Labor			.62	408.00			.59	403.00
Misc., Sec. & Comp. Insur.[3]			.04	23.37			.03	28.37
Total Fixed			1.35	6,840.07			1.47	7,[illegible]
Variable:								
Power:								
90hp tractor	.01 hr.	.11	.29	188.50	.01 hr.	.12	.29	209.00
40hp tractor	.00 hr.	.14	.37	240.50	.00 hr.	.16	.32	273.00
Implements:								
30' 3-p mulch rotor	.01 hr.	3.04	1.02	1,078.30	.01 hr.	3.00	1.50	1,080.00
18' offset disk	.00 hr.	.79	.22	143.00	.00 hr.	.47	.16	132.02
Labor:								
Picture	.01 hr.	1.15	.93	604.50	.01 hr.	1.10	.60	0[illegible].00
Misc., Sec. & Comp. Insur.[3]			.05	35.00			.05	37.70
Custom work:								
Interest on operating capital[4]			.06	[illegible]			.08	92.82
Total Variable			3.70	[illegible]			3.43	[illegible]
Total Costs			[illegible]	[illegible]			[illegible]	[illegible]

1/ Rounded.

2/ [illegible] percent x Total Labor cost.

3/ Total of variable expenses - 2 x 1.5 percent.

TABLE 32

Farm Product Selling Prices, 1953 and 1955

Product	Unit	1953	1955
1	2	3	4
Alfalfa hay	ton	$ 21.60	$ 26.00
Alfalfa seed	lb.	.28	.24
Barley	cwt.	2.70	2.15
Corn	cwt.	3.25	2.70
Corn ensilage	ton	6.00	6.50
Cotton seed	ton	53.00	46.00
Cotton lint	lb.	.3117	.35
Cotton lint	bale	148.99	167.30
Melons (cantaloupe)	crate	3.05	3.00
Milo	cwt.	2.75	2.30
Potatoes (early)	cwt.	1.42	1.85
Sugar beets	ton	13.50	13.50

Farm to dust Selling Prices, 1952 and 1954.

Product	Unit	1952	1954
1	2	3	4
Alfalfa hay	ton	$ 21.40	$ 26.00
Alfalfa seed	lb.	.22	.24
Barley	cwt.	2.70	2.15
Corn	cwt.	3.05	2.70
Corn ensilage	ton	6.00	6.00
Cotton seed	ton	53.00	46.00
Cotton lint	lb.	.4117	.20
Cotton lint	bale	148.00	101.00
[illegible]	[illegible]	[illegible]	[illegible]
Milo	cwt.	2.00	2.00
[illegible]	[illegible]	[illegible]	[illegible]
Sugar beets	ton	12.00	13.00

TABLE 33

Farm Service Purchasing Prices, 1953-1955

Labor rates

1	2	3
Tractor driver		$ 1.15 per hour
Pickup driver		1.15 per hour
Truck driver		1.15 per hour
Irrigator		1.00 per hour
General		.90 per hour
Foreman		4,000.00 per year
Strawboss		3,000.00 per year
Shop mechanic #1		3,750.00 per year
Shop mechanic #2		3,400.00 per year
Bookkeeper (part-time on 1,100-acre farm)		1,200.00 per year
Bookkeeper (full-time on 2,800-acre farms)		3,000.00 per year
Compensation Insurance		3.8% of labor cost
Social Security		2.0% of labor cost

Equipment rentals

4' ditcher		$ .50 per hour
4' scraper		.50 per hour
10' x 60' landplane		2.00 per hour
Border disk		.50 per hour
12' springtooth		.50 per hour
2-row planter		.50 per hour
Fertilizer attachment		.50 per hour
Fertilizer spreader		1.00 per hour
Stalk cutter		1.00 per hour
Broadcaster		.25 per hour

Contract services

Alfalfa

Bale	ton	$ 3.50
Roadside	ton	1.75
Bees	colony	5.00
Weed	acre	15.00
Harvest	lb.	.03

Contract services (continued)

4	5	6
Certify	acre	$10.12
Box rental	acre	1.00
Fertilize (super phosphate)-(appln.)	acre	1.10
Dust (5% DDT - 75% S)-(appln.)	lb.	.04
Defoliate (1 qt. Sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Dust (2% Parathion)-(appln.)	lb.	.05

Barley

Harvest	acre	5.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	

Corn

Chop, haul, unload	ton	2.25
Shell	cwt.	.125
Pick	acre	10.00
Haul	cwt.	.10
Dry	cwt.	.175
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	
Fertilize (NH_3)-(appln.)	acre	1.75

Cotton

Hand thin	acre	5.00
Hand weed	acre	5.00
Pick (hand)	bale	42.00
Pick (machine)	bale	24.50
Gin	bale	14.70
Insurance & storage	bale	1.19
Dust (5% DDT - 50% S)-(appln.)	lb.	.05

TABLE 32

[illegible]

[illegible]			
Tractor driver	$	1.15 per hour	
Tractor driver		[illegible] per hour	
[illegible] driver		[illegible] per hour	
[illegible]		1.00 per hour	
[illegible]		.90 per hour	
[illegible]		4,000.00 per year	
[illegible]		3,000.00 per year	
Shop mechanic #1		3,750.00 per year	
[illegible] #2		3,400.00 per year	
[illegible]		[illegible] per year	
[illegible]		3,000.00 per year	
Income tax [illegible]		3.6% of labor cost	
Social Security		2.0% of labor cost	

[illegible]			
4' disker	$	.50 per hour	
4' scraper		.50 per hour	
10' x 60' land plane		2.00 per hour	
[illegible]		[illegible] per hour	
12' spring-tooth		.50 per hour	
2-row planter		.50 per hour	
Fertilizer attachment		.50 per hour	
Fertilizer spreader		1.00 per hour	
Stalk cutter		1.00 per hour	
[illegible]		[illegible] per hour	

[illegible]			
[illegible]			
Bale	ton	$ 3.50	
Roadside	ton	1.75	
[illegible]	[illegible]	[illegible]	
Hand	acre	15.00	
[illegible]	[illegible]	[illegible]	

[illegible] (continued)		
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Fertilizer (super phosphate)-(appln.)	acre	1.10
Dust (5% DDT - 75% S)-(appln.)	lb.	.01
Herbicide (1 qt. Atrex in 10 gals. diesel oil)-(appln.)	acre	2.50
Dust (2% Parathion)-(appln.)	lb.	.05

[illegible]		
[illegible]	acre	[illegible]
Haul	cwt.	.10
Storage	cwt.	.14
Insurance	$1.50 per $100 of value	

[illegible]		
Chop, haul, unload	ton	2.25
Shell	cwt.	.125
Pick	acre	10.00
Haul	cwt.	.10
Dry	cwt.	.125
[illegible]	cwt.	.14
[illegible]	$1.00 per $100 of value	

[illegible]		
Fertilizer (NH_3)-(appln.)	acre	1.15

Cotton		
Hand thin	acre	5.00
Hand weed	acre	5.00
Pick (hand)	bale	42.00
Pick (machine)	bale	24.50
Gin	bale	14.70
Insurance & storage	bale	1.25
Dust (3% DDT - 50% S)-(applin.)	lb.	.05

Table 33 Continued.

Contract services (continued)

1	2	3
Cotton (continued)		
Defoliate ($NaClO_3$ w/Borate or Mg.)-(appln.)	acre	$ 2.50
Fertilize (NH_3)-(appln.)	acre	1.50
Gypsum - (appln.)	ton	1.50
Melons		
Turn vines	acre	10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP - (appln.)	lb.	.05
Fertilize (NH_3)-(appln.)	acre	1.25
Milo		
Harvest	acre	6.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	$1.50 per $100 of value	
Potatoes		
Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt.	.16
Haul	cwt.	.075
Shed costs	cwt.	.55
Dust (5% DDT - 50% S)-(appln.)	lb.	.05

Contract services (continued)

4	5	6
Sugar beets		
Thin	acre	$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH_3)-(appln.)	acre	1.25
Preparing seedbed		
Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75

Contract services (continued)		
1	**2**	**3**
Cotton (continued)		
Defoliate ($NaClO_3$ w/borate or H_2O_2)-(applications)	acre	$ 2.50
Fertilize (NH_3)-(applications)	acre	1.50
Gypsum - (applications)	ton	1.00
Maize		
Turn vines	acre	10.50
Chop, weed	acre	15.00
Harvest	cwts	.27
Pack & haul	cwts	1.49
Haul 5% DDT - (applications)	lb.	.05
3% EDDP - (applications)	lb.	.05
Fertilize (NH_3)-(applications)	acre	1.25
Milo		
Harvest	acre	6.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	$1.50 per ($100 of value)	
Potatoes		
Irrigation	acre	3.00
Dig	acre	12.00
Pick	cwt.	.25
Haul	cwt.	.075
Seed cutter	cwt.	.25
Dust (3% DDT - 5% S)-(applications)	lb.	.05

Contract services (continued)		
4	**5**	**6**
Sugar beets		
Thin	acre	$12.50
Weed	acre	8.00
Harvest	acre	26.00
Haul	acre	15.00
Fertilize (NH_3)-(applications)	acre	1.25
Processed seedbed		
Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75

TABLE 34

Farm Materials Purchasing Prices, 1953-1955

1	2	3
Alfalfa		
Seed (common)	lb.	$ .32
Seed (caliverde)	lb.	.34
Seed (certified ranger)	lb.	.40
Fertilizer (super phosphate)	lb.	.020
Dust (5% DDT - 75% S)	lb.	.0925
Dust (2% Parathion)	lb.	.121
Sinox defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90
Baling wire	ton	.50
Barley		
Seed	lb.	.04
Corn		
Seed	lb.	.26
Fertilizer (NH_4SO_4)	lb.	.032
Fertilizer (NH_3)	lb.	.105
Cotton		
Seed (acid delinted)	lb.	.115
Seed (machine delinted)	lb.	.081
Fertilizer (NH_4SO_4)	lb.	.032
Dust (5% DDT - 50% S)	lb.	.085
Defoliant ($NaClO_3$ w/ Borate or Mg.)	lb.	.175
Fertilizer (NH_3)		1/
Gypsum	ton	2.50

4	5	6
Melons		
Seed	lb.	$1.45
Dust 5% DDT	lb.	.07
1% TEPP	lb.	.16
Fertilizer (NH_3)	lb.	.085
Milo		
Seed	lb.	.08
Permanent pasture		
Seed	lb.	.50
Fertilizer (16-20)	lb.	.045
Potatoes		
Seed (cut & dipped)	cwt.	6.30
Fertilizer (17-7-0)	lb.	.0375
Dust (5% DDT - 50% S)	lb.	.085
Sugar beets		
Seed	lb.	.46
Fertilizer (NH_3)	lb.	.095

1/ $ .105/lb. for 1-24 tons; $ .095/lb. for 25-49 tons; $ .085/lb. for 50 tons and over.

TABLE 34

Farm Materials Purchasing Prices, 1939-1955

1	2	3
Alfalfa		
Seed (common)	lb.	$ .32
Seed (cultivated)	lb.	.34
Seed (certified hardy)	lb.	.40
Fertilizer (super phosphate)	lb.	.020
Dust (5% DDT - 75% S)	lb.	.0625
Dust (2% Parathion)	lb.	.121
Stamer defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.50
Baling wire	ton	.50
Barley		
Seed	lb.	.04
Corn		
Seed	lb.	.26
Fertilizer (NH_4SO_4)	lb.	.032
Fertilizer (NH_3)	lb.	.105
Cotton		
Seed (acid delinted)	lb.	.115
Seed (machine delinted)	lb.	.081
Fertilizer (NH_4SO_4)	lb.	.032
Dust (5% DDT - 50% S)	lb.	.065
Defoliant ($NaClO_3$ w/ Borax or Mg.)	lb.	.175
Fertilizer (NH_3)		1/
Gypsum	ton	2.50

4	5	6
Melons		
Seed	lb.	$12.45
Dust 5% DDT	lb.	.07
1% TEPP	lb.	.16
Fertilizer (NH_3)	lb.	.085
Milo		
Seed	lb.	.09
Permanent pasture		
Seed	lb.	.50
Fertilizer (16-20)	lb.	.045
Potatoes		
Seed (cut & dipped)	cwt.	6.30
Fertilizer (17-7-0)	lb.	.0275
Dust (5% DDT - 50% S)	lb.	.065
Sugar beets		
Seed	lb.	.46
Fertilizer (NH_3)	lb.	.085

1/ $ .105/lb. for 1-24 tons; $ .085/lb. for 25-49 tons; $ .065/lb. for 50 tons and over.